PERIODIC REVIEW REPORT No. 11
(JULY 1, 2022 – JUNE 30, 2025)
CARRIAGE CLEANERS-BRIGHTON
NYSDEC SITE NO. 828120

WORK ASSIGNMENT NO. D009809-15

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

Earth Environment Engineering and Geology, P.C.
Portland, Maine

EEEG Project No.: US-EI-3616206118

REVISED MAY 2026

MAY 2026

CERTIFICATION STATEMENT

I Kevin McKeever certify that I am currently a Qualified Environmental Professional as in defined in 6 NYCRR Part 375 and that this Periodic Review Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

QEP

05/13/2026 DATE

PERIODIC REVIEW REPORT No. 11
(JULY 1, 2022 – JUNE 30, 2025)
CARRIAGE CLEANERS-BRIGHTON
NYSDEC SITE NO. 828120

WORK ASSIGNMENT NO. D009809-15

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

Earth Environment Engineering and Geology, P.C.
Portland, Maine

EEEG Project No.: US-EI-3616206118

REVISED MAY 2026

Submitted by:

Kevin J. McKeever
Project Manager

Approved by:

Jean Firth, PG
Program Manager

TABLE OF CONTENTS

1.0 SITE OVERVIEW 1-1
1.1 INTRODUCTION 1-1
1.2 SITE HISTORY AND DESCRIPTION 1-1
1.3 PHYSICAL SETTING 1-3
1.4 CLEANUP GOALS AND REMEDIAL PROGRESS 1-3
1.4.1 Description of Selected Remedy and Associated Cleanup Goals 1-3
1.4.2 Remedial Progress 1-4
2.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS 2-1
2.1 SITE MANAGEMENT STATUS 2-1
2.2 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS 2-2
2.2.1 Institutional Controls 2-2
2.2.2 Engineering Controls 2-2
2.3 GREEN REMEDIATION 2-7
3.0 CONCLUSIONS AND RECOMMENDATIONS 3-1
3.1 INSTITUIONAL CONTROLS 3-1
3.2 ENGINEERING CONTROLS 3-1
3.3 RECOMMENDATIONS 3-1
4.0 REFERENCES 4-1

LIST OF TABLES

Tables

2.1 PCE Concentrations in Subsurface Soil

2.2 Monitoring Well Water Level Measurements

2.3 Groundwater Monitoring Wells and Extraction Well PCE Concentrations

2.4 Historical PCE and Daughter Products Groundwater Concentrations

LIST OF FIGURES

Figures

1.1 Site Location
1.2 Onsite and Offsite Sub-Slab Depressurization System (SSDS) Locations
2.1 Vapor and Soil Sampling Locations
2.2 SVE Influent and Effluent VOC Concentrations
2.3 SSDS Layout Plan
2.4 Groundwater Monitoring Well Locations
2.5 Groundwater Contours October 2022
2.6 Groundwater Contours April 2023
2.7 Groundwater Contours October 2023
2.8 Groundwater Contours April 2024
2.9 Groundwater Contours October 2024
2.10 Groundwater Contours March 2025
2.11 Extent of PCE in Groundwater October 2022
2.12 Extent of PCE in Groundwater April 2023
2.13 Extent of PCE in Groundwater October 2023
2.14 Extent of PCE in Groundwater April 2024
2.15 Extent of PCE in Groundwater October 2024
2.16 Extent of PCE in Groundwater March 2025

LIST OF APPENDICES

Appendices

Appendix A Sewer Line Disconnection Summary Letter
Appendix B Monthly SVE Data (July 2022 through January 2024)
Appendix C Laboratory Validation Reports
Appendix D Low Flow Groundwater Data Records
Appendix E PCE Time Series Plots
Appendix F Greenhouse Gas Emissions Summary
Appendix G Engineering Controls – Standby Consultant/Contractor Certification Form

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

CRR	Construction Completion Report
EC(s)	engineering controls
EEEG	Earth Environment Engineering and Geology, P.C.
FS	Feasibility Study
GES	Groundwater and Environmental Services, Inc.
GSR	Green and Sustainable Remediation
GWETS	groundwater extraction and treatment system
IC(s)	institutional controls
kW	kilowatts
lb CO_2e	pounds of equivalent carbon dioxide
lbs/hr	pounds per hour
MACTEC	MACTEC Engineering and Consulting, P.C. (prior to 2020) or MACTEC Engineering and Geology, P.C. (from 2020 to 2024)
MCDES	Monroe County Department of Environmental Services
µg/L	microgram(s) per liter
mg/kg	milligram(s) per kilogram
NYSDEC	New York State Department of Environmental Conservation
OBG	O'Brien and Gere Engineers
OM&M	operations, maintenance, and monitoring
PCE	tetrachloroethene
ppbv	part(s) per billion by volume
ppm	part(s) per million

GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

PRR	periodic review report
RA	Remedial Action
RI	Remedial Investigation
ROD	Record of Decision
RSO	remedial system optimization
SCO(s)	soil cleanup objective(s)
Site	Carriage Cleaners site
SM	site management
SMP	Site Management Plan
SSDS	sub-slab depressurization system
SVE	soil vapor extraction
SVI	soil vapor intrusion
USEPA	United Stated Environmental Protection Agency
VOC(s)	volatile organic compounds

EXECUTIVE SUMMARY

The Carriage Cleaners site (Site No. 828120; hereinafter referred to as the Site) is a commercially zoned parcel approximately 0.35 acres in size located at the intersection of Brooklawn Drive and Monroe Avenue, in Brighton, New York (Figure 1.1). Dry cleaning operations have occurred at the Site since at least 1980 (O'Brien & Gere, 2007). Carriage Cleaners utilized tetrachloroethene (PCE) during dry-cleaning operations until October 10, 2018, when operations switched to a naphthalene-based product that was used until 2022. The current operations at the Carriage Cleaners building consist of laundry pickup and drop-off activities only.

The remedy for the Site was selected and a Record of Decision (ROD) issued in March 2008 (New York State Department of Environmental Conservation [NYSDEC], 2008). Contaminants of concern at the Site are volatile organic compounds (VOCs), specifically PCE and its breakdown components. RA activities have included:

1. Contaminated soil was excavated to bedrock (approximately sixteen feet below ground surface) at a suspected contaminant source area adjacent to the active dry cleaner building in 2011. Excavated material was transported and disposed at an off-site facility. The excavation was backfilled with clean soil. In addition, in 2011, a PCE aboveground storage tank (AST) stored between the Carriage Cleaners building and the adjacent residence was also removed, and floor drains located within the Carriage Cleaners building were abandoned to prevent possible discharge of contaminants to storm sewers. [1]
2. A soil vapor extraction (SVE) system was installed in 2011. Contaminated air from the extraction wells is treated by granular activated carbon to remove contaminants before being discharged to the atmosphere. The SVE system was shut down from December 20, 2017, to November 21, 2018, during execution of a rebound study and was restarted after witnessing rebound in the soil vapor due to continued groundwater impacts.
3. A groundwater extraction treatment system (GWETS) was in operation from October 2011 to September 2020. The GWETS consisted of one extraction well which collected groundwater on site to prevent continued off-site migration of contaminants. Contaminated water from the extraction well was treated to remove contaminants before being discharged to the sanitary sewer in accordance with an approved permit. The GWETS was shut down in September 2020, at the request of the NYSDEC, following the submittal of the January 2020 Remedial System Optimization (RSO) Report.
4. The GWETS discharge to the sanitary sewer was permanently disconnected on October 17, 2022, by NYSDEC Call-out contractor Groundwater and Environmental Services, Inc. (GES). The Monroe County Department of Environmental Services (MCDES) inspected and

[1] Periodic Review Report No. 10 (July 14, 2021 – July 1, 2022) [Mactec, 2022b] incorrectly stated that excavations were completed in 2013 and 2017, and that AST removal and floor drain abandonments were completed in 2017.

verified the disconnection on November 17, 2022. The sewer line disconnection summary is provided in Appendix A.

5. A RSO work plan to implement the recommended action to convert the existing SVE system to a sub-slab depressurization system (SSDS) was submitted and approved by the NYSDEC on January 14, 2022.
6. A RSO Installation Performance Criteria Letter proposing the conversion of the existing SVE system was prepared by MACTEC Engineering and Geology, P.C. (MACTEC), now Earth Environment Engineering and Geology, P.C. (EEEG), and submitted to the NYSDEC on May 2, 2023; the letter was approved by the NYSDEC on May 18, 2023. A RSO Conversion proposed budget was received from GES in August 2023. A RSO Conversion work plan was received from GES in October 2023. Implementation of the RSO began in November 2023 with final commission of the SSDS was completed in May 2025. GES will perform operations, maintenance & monitoring (OM&M) of the system in the next reporting period until August 2026.

A Site Management (SM) Plan (MACTEC, 2022a) outlines the controls established to meet the ROD requirements. Contaminated groundwater remains beneath the Site; therefore, engineering controls (ECs)/institutional controls (ICs) are required to protect human health and the environment. Previously contaminated soil onsite has been remediated.

EC systems currently at the Site include:

1. A cover system consisting of asphalt pavement, concrete sidewalks, and concrete building slabs.
2. A SSDS was installed to protect indoor air within the site building. Security fencing/concrete blocks were installed to protect the SSDS.
3. SSDSs at fifteen structures are in place to mitigate soil vapor from entering residential structures and posing indoor air concerns in the neighboring community. The SSDSs were previously being monitored and maintained by a separate contractor for the NYSDEC; however, EEEG is currently monitoring/maintaining the SSDSs at the request of NYSDEC under EEEG's contract. The SSDSs locations in relation to the Site are shown in Figure 1.2. The NYSDEC requested that EEEG perform OM&M activities on the fifteen existing SSDSs on April 17, 2025 (fourteen offsite and one in the onsite abandoned building). EEEG submitted a summary letter on May 30, 2025, regarding inspections of the off-site SSDSs where approval was received from the property owner. EEEG will conduct oversight of the repair of the basement ventilation system at 2113 Monroe Avenue in the next reporting period.

Previous EC systems at the Site included:

1. Site fencing to keep the public from approaching the Site treatment trailer. The security fencing and treatment trailer were removed.
2. A SVE system to treat soil contamination was replaced with a SSDS.
3. GWETS was removed and the extraction well EW-1 was abandoned as part of the RSO activities and the installation of the SSDS.

IC systems at the Site in the form of an environmental easement include:

1. Limiting use and development of the property to commercial and industrial activities.
2. Land use restrictions which require proper worker protections during construction or excavation activities that would potentially cause a worker to contact contaminated soil, groundwater, or soil vapor.
3. Compliance with the approved Site Management Plan (SMP).
4. Groundwater use restrictions which preclude the use of groundwater at the Site without prior notification and approval from NYSDEC.
5. Restrictions implemented on the site property related to soil, groundwater, and soil vapor.
6. A periodic certification of ICs/ECs.

This is the eleventh PRR for the Site. The PRR summarizes the SM activities completed at the Site from July 1, 2022, through June 30, 2025, and evaluates the protectiveness and effectiveness of the RA conducted. During the reporting period, SM requirements were met. Based on a review of activities conducted during this period, the combined remedy continues to be protective of public health and the environment. In addition, several of the remedial action objectives in the ROD have been achieved.

1.0 SITE OVERVIEW

1.1 INTRODUCTION

This Periodic Review Report (PRR), which covers the period of performance from July 1, 2022, to June 30, 2025 (hereinafter referred to as the "reporting period"), is the eleventh PRR for the Carriage Cleaners site (Site) and includes:

- Required institutional control/engineering control (IC/EC) certification by the site owner and the project engineer (Earth Environment Engineering and Geology [EEEG]).
- Summary and documentation of site-related data to support IC/EC certification.
- Discharge monitoring data for sub-slab vapors from SVE system for the certification period.
- A description of the on-line SVE system performance prior to removal.
- A summary of offsite sub-slab depressurization system (SSDS) inspections.
- Groundwater sampling results and findings.

From July 1, 2022 until the system was shutdown in January 2024, the site soil vapor extraction (SVE) system was operated, monitored, and maintained by NYSDEC Call-out contractor Groundwater and Environmental Services, Inc. (GES) under direction by EEEG, formerly MACTEC (name changed in May 2024).

This PRR was completed using site specific documentation including the Site's ROD (NYSDEC, 2008), periodic site inspections conducted by GES, monthly SVE OM&M monitoring data prepared by GES (July 2022 through January 2024 excluding December 2024), groundwater data from six semi-annual groundwater sampling events, and the SMP.

Also, during the reporting period, an SSDS was installed at the Site building. As part of these work activities, the treatment trailer that housed the groundwater extraction and treatment system (GWETS) and SVE system components was removed from the site and extraction well EW-1 and components therein were abandoned.

1.2 SITE HISTORY AND DESCRIPTION

The Site is located at 2101 Monroe Avenue, Town of Brighton, Monroe County, New York (Figure 1.1). The Site is a commercially zoned parcel approximately 0.35 acres in size located at the

intersection of Brooklawn Drive and Monroe Avenue. The area is a densely populated, mixed commercial and residential area. The Site is currently occupied by a one-story cement block laundry facility, an unoccupied abandoned two-story wood house, and a paved parking lot.

Dry cleaning operations have occurred at the Site since at least 1980 (O'Brien & Gere, 2007). Until October 10, 2018, Carriage Cleaners utilized tetrachloroethene (PCE) during dry-cleaning operations. After that date, naphthalene, a petroleum-based solvent, was used until 2022. The current operations at the Carriage Cleaners building consist of laundry pickup and drop off activities only.

In 2003, a petroleum spill (Spill Number 0306131, closed on March 27, 2013) occurred adjacent to the Site at a former Newcomb Oil/Citgo Gasoline Station located at 2087 Monroe Avenue. PCE was discovered in groundwater downgradient of the Site during a series of investigations related to the petroleum spill. Due to the proximity of the Site and the history of PCE used during dry cleaning operations at the Site, the Carriage Cleaners Property was determined to be a potential source of the PCE detected within the groundwater (NYSDEC, 2008).

As a result of the PCE detections a Phase II Environmental Site Assessment was completed by the site owner in 2004. This investigation did not identify a source of PCE at the gas station. The assessment suggested that potential ruptures within the sanitary and storm sewer line could be a source for the PCE detected within groundwater. The NYSDEC completed an offsite vapor intrusion study at four nearby residential properties. The results from this study led to the installation of one basement ventilation system and four sub-slab depressurization systems (SSDS) as part of an interim remedial measure (NYSDEC, 2008).

As a result of these investigations, the NYSDEC listed the Site as a Class 2 Site in the Registry of Inactive Hazardous Waste Disposal Sites in New York in June of 2004. A Remedial Investigation (RI) and Feasibility Study (FS) was completed in 2007 by O'Brien and Gere Engineers (OBG), under direction of the NYSDEC (OBG, 2007). The remedy for the Site was selected and a Record of Decision (ROD) issued in March 2008 (New York State Department of Environmental Conservation [NYSDEC], 2008).

Site remedial actions included soil removal/PCE AST removal/building floor drain abandonment actions in 2011, installation of a GWETS that was in operation from 2011 to 2020, installation of a SVE that was in operation from 2011 through January 2024, and the installation of an SSDS during this reporting period, replacing the SVE. These remedial actions are described below.

1.3 PHYSICAL SETTING

The geology beneath and near the Site directly influences the distribution and ability for contaminants to migrate from the Site. Site geology consists of a sandy glacial till (overburden beneath the Site) comprised of loose to dense, fine, and medium sand with some silt and gravel overlying a medium dark gray dolomite (bedrock beneath the Site) of the Lockport Group. The thickness of the overburden in the vicinity of the Site ranges from approximately 3 feet to 15 feet. Based on data collected as part of the RI, OBG reported that three zones can be distinguished within the bedrock unit. These include a weathered bedrock zone immediately below the till deposit ranging from 1 to 3 feet in thickness, a shallow fractured bedrock zone with a thickness of approximately 6 to 15 feet, and a more competent intermediate bedrock zone, where the fracture frequency decreases with depth. The data suggest that there is a hydraulic connection/communication between the overburden zone and the shallow bedrock groundwater zone (OBG, 2007).

1.4 CLEANUP GOALS AND REMEDIAL PROGRESS

This section describes the selected remedy cleanup goals, and previous remedial actions.

1.4.1 Description of Selected Remedy and Associated Cleanup Goals

Based on the results of the RI/FS and the criteria identified for evaluation of alternatives, the NYSDEC selected excavation (to the extent practical) to remove from the Site contaminated soil exhibiting concentrations of PCE greater than the soil cleanup objective (SCO) for unrestricted use (1.3 parts per million [ppm]). The selected remedy also included operation of an on-site SVE system to treat residual contaminated soil (i.e., beneath the building) and operation of a groundwater extraction and treatment system (GWETS) to contain contaminated shallow bedrock groundwater, along with the continued operation of the existing off-site SSDS and periodic soil vapor intrusion (SVI) monitoring at nearby residences.

As part of the remedy, ICs in the form of an environmental easement are being used to impose land use restrictions and groundwater use restrictions at the Site. Specifically, the environmental easement includes:

- Limiting use and development of the property to commercial and industrial activities.

- Land use restrictions which require proper worker protections during construction or excavation activities that would potentially cause a worker to contact contaminated soil, groundwater, or soil vapor.
- Compliance with the approved Site Management Plan (SMP).
- Groundwater use restrictions which preclude the use of groundwater at the Site without prior notification and approval from NYSDEC.
- Restrictions implemented on the site property related to soil, groundwater, and soil vapor.
- A periodic certification of ICs/ECs.

The cleanup goals for the site continue to follow the SMP wherein groundwater sampling results are compared to the New York State Class GA Groundwater Standards and New York State Guidance Values.

1.4.2 Remedial Progress

Initial Remedial Action (RA) work per the ROD commenced in 2011 with the installation of a GWETS to treat contaminated bedrock groundwater and a SVE system to remediate vadose zone soil contamination below the Site building. This was followed by soil source removal activities in the vicinity of the sewer line in 2011 (MACTEC Engineering and Consulting, P.C. [MACTEC], 2012). [2]

Full-time combined SVE and GWETS operations and corresponding SM activities were initiated in January 2012.

Historic VOC data collected from overburden monitoring well MW-6 and data collected during and post installation of bedrock monitoring well MW-6B in 2013 indicated the presence of PCE diffused into the overburden soil (monitoring well MW-6) and into the bedrock matrix (rock chip samples from monitoring well MW-6B indicated concentrations in bedrock of up to 48 milligrams per kilogram [mg/kg]). Although a source area for this localized contamination was not previously identified, it has resulted in high concentrations of PCE in groundwater.

As a result of the 2013 evaluation, potassium permanganate (RemOx® SR) cylinders were installed in 2014 in monitoring wells MW-6 and MW-6B to passively treat groundwater and bedrock in the

[2] Periodic Review Report No. 10 (July 14, 2021 – July 1, 2022) [MACTEC, 2022b] incorrectly stated that source removal activities were completed in 2013 and 2017.

vicinity of monitoring wells MW-6/6B. The cylinders were installed as a supplement to recommendations in the ROD. The cylinders did not have a lasting effect on groundwater quality and since the removal of the cylinders in late 2018, groundwater contaminant concentrations reported in the overburden and monitoring wells MW-6 and the bedrock at monitoring wells MW-6B have varied with the seasonal fluctuation of the groundwater table.

In March 2017, results of soil samples collected from beneath the building indicated that the SCO had been achieved. Therefore, the SVE system was taken offline on December 20, 2017, to conduct a rebound study to evaluate the need for its continued operation. The SVE system was turned back on to support SVI mitigation in the Site building on November 21, 2018. Following the submittal of the January 2020 Remedial System Optimization (RSO) Report, the GWETS was shut down (September 2020) at the request of the NYSDEC due to its limited effect on the groundwater plume. The GWETS sewer connection was permanently disconnected and verified by MCDES in November 2022.

The RSO work plan to implement the recommended action to convert the existing SVE system to a SSDS was approved by the NYSDEC on January 14, 2022. A RSO Installation Performance Criteria Letter proposing conversion of the existing SVE system was prepared by MACTEC approved by the NYSDEC on May 18, 2023. The RSO Installation Performance Criteria was submitted to On-Call contractor GES on May 19, 2023.

Implementation of the RSO conversion from an SVE to a SSDS began in November 2023 and was completed in May 2025. Implementation of this RSO followed the procedures and criteria discussed in the RSO Work Plan (MACTEC, 2021e) and the RSO Installation Performance Criteria, including asbestos containing materials (ACM) abatement of floor tiles and mastic. A Construction Completion Report (CCR) will be prepared within the next reporting period. In accordance with the ROD, operation of the remedy components will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued operation is technically impracticable or not feasible.

2.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

Ongoing SM activities required by the SMP include ICs/ECs, the monitoring program, and the implementation of the site Operation and Maintenance Plan described in the SMP (MACTEC, 2022a).

2.1 SITE MANAGEMENT STATUS

SM activities during the reporting period were conducted to confirm that established controls required in the SMP are operational and effective, that the SMP is being implemented and conducted accordingly, and that the remedy remains protective of the environment and/or public health.

During this reporting period the following activities were conducted:

- Operation of the SVE system by GES, with oversite by EEEG, until the end of January 2024;
- Conversion of the SVE system to a SSDS by GES, under direction of EEEG;
- Removal of the treatment trailer that held the SVE equipment, and former GWETS equipment;
- Disconnection of the GWETS discharge lines to the sanitary sewer system;
- Abandonment of the former GWETS extraction well EW-1;
- Performance of six semi-annual groundwater sampling events during the following weeks:
    - October 24, 2022;
    - April 10, 2023;
    - October 20, 2023 (EEEG, 2024);
    - April 26, 2024 (EEEG, 2024);
    - October 29, 2024 (EEEG, 2025b); and
    - March 11, 2025 (EEEG, 2025b).
- Inspections of eight off-site SSDSs and attempts to contact owners of an additional seven off-site systems for inspections (one SSDS is located in the abandoned building onsite) (EEEG, 2025a);
- Annual inspections of the ECs at the Site; and,
- Preparation and submittal of Revision No. 3 of the SMP for the site (MACTEC, 2022a).

Based on a review of the SM activities conducted as listed above, an evaluation of the performance, protectiveness, and effectiveness of the remedy is provided in the sections below.

2.2 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS

Soil contamination is likely no longer present at this Site above the SCO for unrestricted use (1.3 ppm for PCE) based on analytical results from previous soil removal actions and post SVE installation. However, VOCs are present in groundwater above GA standards; therefore, ICs and ECs have been implemented to protect public health and the environment. The IC/ECs are designed to prevent:

- Ingestion/direct contact with contaminated soil;
- Inhalation of or exposure to contaminants volatilizing from contaminated soil;
- Ingestion of groundwater with contaminant levels that exceed drinking water standards; and
- Contact with or inhalation of volatiles from contaminated groundwater.

2.2.1 Institutional Controls

A series of ICs were put in place to provide site restrictions and implement, maintain, and monitor the ECs. Currently, ICs in the form of an environmental easement are being used to impose land use restrictions and groundwater use restrictions at the Site. Based on current site conditions and inspections conducted throughout the reporting period during routine groundwater sampling, there has not been a change in property use, site activities are compliant with the ICs and the environmental easement, and no change in ICs are required.

2.2.2 Engineering Controls

In accordance with the ROD, the following EC are in place:

- Use of the existing asphalt pavement, concrete sidewalks, and concrete building slabs as a cover system to minimize direct contact to impacted subsurface soil.
- Groundwater monitoring wells to monitor off-site migration of contaminants in groundwater.
- Previous ECs installed in accordance with the ROD that were no longer necessary because remedial objectives were achieved included:

- An SVE system to treat soil contamination on-site.
- A GWETS to prevent off-site migration of contaminants through groundwater.
- Site fencing to keep the public from approaching the treatment trailer.

These EC listed above are described in more detail below.

2.2.2.1 Asphalt and Concrete Cover System

A permanent control to prevent direct contact to impacted subsurface soil is in place as a cover system, comprised of asphalt pavement and concrete sidewalks and building slabs and is documented in the American Land Title Association/American Congress on Surveying and Mapping Land Title Survey included in Appendix A of the SMP (MACTEC, 2022a). is. The cover system was observed during the reporting period, as part of the semi-annual groundwater monitoring events, to be intact and continuing to provide an effective barrier to site soils.

2.2.2.2 Soil Vapor Extraction System

The SVE system was operated until the end of January 2024. The purpose of the SVE system was to treat residual contamination in overburden vadose zone soil. The general configuration of the former SVE system's extraction wells and vapor monitoring points is presented on Figure 2.1.

PCE concentrations in soil samples indicate that the SCO for the protection of groundwater has been reached in subsurface soil and that the SVE system has treated subsurface soil to the extent practicable as described in the ROD. Table 2.1 shows that 2017 PCE soil concentrations are below the SCO of 1.3 ppm and reduced compared to 2013 results.

As a result of the March 2017 soil investigation, a rebound study involving shutdown of the SVE system from December 2017 until November 2018 was conducted. Elevated VOC soil vapor concentrations due to continued groundwater impacts in the fourth quarter 2018 were observed as part of the rebound study and the SVE system was restarted. Concentrations in SVE system influent vapor thereafter dropped to consistently low levels as shown on Figure 2.2. A trend line showing a slight decrease in influent VOC concentration since the beginning of SVE system operation and the cumulative total mass of VOCs removed from the system are also depicted on Figure 2.2.

During the current PRR reporting period, and prior to the SVE system conversion to a SSDS, the average total VOC concentration per quarter in the combined influent soil vapor samples utilizing the United States Environmental Protection Agency (USEPA) TO-15 analysis was:

- 2022 third quarter – 250 parts per billion by volume (ppbv);
- 2022 fourth quarter – 310 ppbv;
- 2023 first quarter – 57 ppbv;
- 2023 second quarter – 64 ppbv;
- 2023 third quarter - 93 ppbv;
- 2023 fourth quarter - 44 ppbv; and
- 2024 January - 89 ppbv.

Through January 2024, the aggregate mass of total VOCs extracted by the SVE system is estimated to be 353.67 pounds. The GES monthly SVE OM&M monthly SVE OM&M air sampling laboratory reports, air sampling data tables, and SVE run time data tables from July 2022 through January 2024 excluding December 2023 is provided in Appendix B. During the PRR reporting period monthly effluent samples were collected by GES from July 2022 through January 2024 (excluding December 2023) to evaluate compliance with the air discharge criteria for the Site defined in the DAR-1 Guidelines for the Control of Toxic Ambient Air Contaminants and Title 6 of the New York Codes, Rules, and Regulations Part 212. The average monthly combined stack discharge for the period did not exceed the discharge objective of 0.1 pounds per hour (lbs/hr) of high toxicity contaminants, with the maximum monthly average combined stack discharge occurring in the month of July 2022 at 0.0054 lbs/hr.

Overall, the SVE system generally performed as expected over its ten years of operation and achieved its goal of reducing soil concentrations to below the SCO. Although there were still measurable PCE concentrations in soil vapor at the SVE influent, the SCOs for PCE were met and minimal additional mass of contaminants were being removed, and therefore the SVE was determined to have reached its objective and was no longer necessary. The continued PCE present in soil vapor is likely attributable to off gassing of groundwater, overburden soils, and/or bedrock from the subsurface. Although the SVE objectives were met, this impacted soil vapor could impact indoor air concentrations at the dry cleaner building and the SVE was converted to a SSDS, since it is better suited for vapor intrusion mitigation than the operation of an SVE system. The SSDS is discussed in Section 2.2.2.3 below. The treatment trailer which contained the SVE components (and former

GWETS components) was removed from the site in February 2024. The security fencing surrounding the treatment trailer was also removed in February 2024.

2.2.2.3 Sub-Slab Depressurization Systems

On-Site SSDS. As discussed above, the SVE system was deemed no longer necessary and replaced during this reporting period by an SSDS, which continues to operate as an EC. A RSO work plan to implement the recommended action to convert the existing SVE system to a SSDS was approved by the NYSDEC on January 14, 2022 and a RSO Conversion work plan was received from GES in October 2023.

Implementation of this RSO began in November 2023 and followed the procedures and criteria discussed in the RSO Work Plan (MACTEC, 2021e) and the RSO Installation Performance Criteria, and included asbestos containing materials abatement, as necessary, for floor tiles and mastic. Also included were building sealing activities and subsequent indoor air sampling events by GES as part of the SSDS commissioning. New security fencing was installed around the SSDS in February 2024 and concrete blocks were installed in May 2024 to add extra protection around the SSDS. RSO implementation and SSDS commissioning was completed in May 2025. A CCR will be prepared within the next reporting period. The new SSDS configuration is displayed in Figure 2.3.

Off-Site SSDSs. At the request of the NYSDEC, in May 2025 EEEG attempted to contact property owners of the 15 offsite SSDSs (one SSDS is within the onsite abandoned building), associated with the site, for approval to inspect the existing systems to verify that they are operational. Based on the inspections conducted and verbal contact with property owners, seven of the SSDSs are operating as designed and one, located at 2113 Monroe Avenue, is not functioning. EEEG initial contact letters and subsequent property visits were unsuccessful to gain access for seven of the residential property SSDSs; therefore, it is not known if these seven SSDSs at occupied structures are operational including the one SSDS within the onsite abandoned building. During the upcoming reporting period, a more thorough public outreach should be completed at the remaining seven off-site locations to confirm if SSDSs are still operational. Additional sampling or upgrades/repairs to the SSDS at 2113 Monroe Avenue is scheduled to occur in July 2025 in the next reporting period.

2.2.2.4 Groundwater Extraction and Treatment System

As noted in the Third Quarter 2020 OM&M Report, the GWETS was shut down on September 9, 2020, upon the request from NYSDEC. The GWETS discharge to the sanitary sewer was permanently disconnected on October 17, 2022, by GES. The MCDES inspected and verified the disconnection on November 17, 2022. The sewer line disconnection summary prepared by GES and dated November 21, 2022, is provided in Appendix A. The treatment trailer which contained the GWETS components (and SVE components) and the security fencing surrounding the treatment trailer were removed from the site in February 2024.

The extraction well EW-1 was abandoned from May 27 through May 29, 2025, including removal of the pump within the extraction well, and breaking up the top two feet of the concrete well vault and using the material as backfill prior to adding topsoil and seeding.

2.2.2.5 Groundwater Monitoring Wells

Monitoring wells MW-111I, HA-114, MW-210, MW-8B, MW-9, MW-9B, MW-6, and MW-6B, and extraction well EW-1 as shown in Figure 2.4, were gauged and sampled as part of a combined comprehensive groundwater sampling event including wells from nearby Former Speedy's Cleaners in the following weeks:

- October 24, 2022,
- April 10, 2023,
- October 20, 2023,
- April 26, 2024,
- October 29, 2024, and
- March 11, 2025.

Extraction well EW-1 was not gauged and sampled in October 2022 or April 2023. Table 2.2 presents the groundwater elevation summary for the October 2022 through March 2025 gauging events. Figure 2.5 through Figure 2.10 present the groundwater contours for the six gauging events listed above, respectively. Table 2.3 summarizes groundwater PCE concentrations in monitoring wells onsite and adjacent to the Site. The extent of PCE in groundwater for the six sampling events listed above are presented in Figure 2.11 through Figure 2.16, respectively. Table 2.4 provides historical groundwater PCE and daughter product concentrations in monitoring wells onsite and adjacent to

the Site. Appendix C contains the Laboratory Validation Reports for the sampling events discussed above. The Low Flow Groundwater Data Records for the sampling events are presented in Appendix D.

PCE detections over the last six sampling events (i.e., during this reporting period) in monitoring well MW-6B ranged from 3,200 micrograms per liter (µg/L) in October 2023 to 4.1 µg/L in April 2024 and in monitoring wells MW-6 ranged from 25,000 µg/L (April 2023) to 400 µg/L (October 2023). PCE detections indicate contamination could be desorbing into the groundwater from the overburden soils and bedrock in the vicinity of these wells, potentially from under the building. PCE concentrations in the other monitoring wells that comprise the groundwater monitoring network have remained stable with minor fluctuations over the last six sampling events.

The PCE iso-concentrations in groundwater over the last six sampling events displayed in Figures 2.11 through Figure 2.16, displays that PCE plume has conservatively reached a steady-state scenario representative of seasonal fluctuations and has not increased in down-gradient length. PCE time series plots are provided in Appendix E for monitoring wells MW-6, MW-6B, MW-8B and MW-210.

2.3 GREEN REMEDIATION

Green remediation was considered during this reporting period for items related to the RSO conversion from the SVE system to SSDS and the GWETS abandonment as follows:

- Reduced electrical usage for site remediation as a result of the conversion of the SVE to a SSDS. The SVE system utilized approximately 13,600 kilowatts hours (kWh) per month compared to the SSDS at approximately 1,300 kWh per month.
- Reduced monthly OM&M trips related to the SVE to SSDS conversion.
- Recycling of the extraction well (EW-1) metal vault cover during EW-1 abandonment activities. EW-1 was part of the former GWETS.
- Re-use of a portion of EW-1 pre-fabricated concrete vault during the EW-1 abandonment. Half of the concrete vault was crushed in-place and used as backfill within the remaining half of the vault. This reduced the amount of municipal construction waste that would be landfilled and also reduced greenhouse gas emission for transportation and disposal.

Additional green remediation aspects that have been implemented include:

- Combined sampling events with both Carriage and Former Speedy's reduced vehicle emissions.

- Staff mobilizing from the closest office to the Site when possible.
- Travel to the Site was coordinated to accomplish multiple tasks when possible.

During the three-year reporting period, the combined SVE and SSDS operating and conversion activities, SVE OM&M, and semi-annual groundwater sampling activities produced approximately 90,000 pounds of equivalent carbon dioxide (lb CO_2e) emissions.

As referenced above, the reduced use of electricity for the SVE system compared to the SDDS has resulted in a reduction of approximately 2,900 lb CO_2e emissions per month (from 3,200 lb CO_2e to 300 lb CO_2e). Additionally, reducing from monthly SVE OM&M visits to quarterly SSDS OM&M visits is anticipated to result in a reduction of approximately 1,020 lb CO_2e emissions annually, or 85 lb CO_2e emissions per month on average. The Greenhouse Gas Emissions Summary is attached in **Appendix F**.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The site remedy continues to be protective of the public health and the environment and is compliant with the decision document. However, portions of the remedy could be optimized while continuing to be protective.

3.1 INSTITUIONAL CONTROLS

The current ICs are adequate to achieve the objectives for protection of human health and the environment based on current site use.

3.2 ENGINEERING CONTROLS

The current ECs are adequate to achieve the objectives for protection of human health and the environment based on current Site use; however, all related off-site SSDSs were not confirmed as operational during this reporting period. The SCO has been achieved and the SVE system was replaced with a SSDS in May 2025. The cover system EC should remain as a site requirement. The completed Engineering Controls – Standby Consultant/Contractor Certification Form is provided in Appendix G.

3.3 RECOMMENDATIONS

Based on the information presented in this PRR, the following is proposed:

- Continue operation of the SSDS until such time that the NYSDEC and NYSDOH determine it is no longer necessary.
- Evaluate a viable method to reduce the concentration of the onsite groundwater VOC plume in the area of monitoring well MW-6, if requested by the NYSDEC.
- Continue to monitor the groundwater plume off-Site in conjunction with the apparent comingled plume with Former Speedy's Dry Cleaners plume for monitored natural attenuation.
- The cover system EC should remain as a site requirement.
- Update the SMP since the SVE to SSDS conversion is completed.

- If requested by NYSDEC, begin preparation of the alternative energy evaluation for the SSDS and Green and Sustainable Remediation (GSR) tasks outlined in the Implementing Green and Sustainable Remediation Practices in New York State (NYSDEC, 2025).

4.0 REFERENCES

Earth Environment Engineering and Geology, P.C. (EEEG), 2024. October 2023 and April 2024 Semi-Annual Groundwater Data Summary – Carriage Cleaners – NYSDEC Site No. 828120. Prepared for the New York State Department of Environmental Conservation. November 2024.

EEEG, 2025a. *Confidential May 2025 SSDS Inspections – Existing Off-Site SSDSs - Carriage Cleaners – NYSDEC Site No. 828120*. Prepared for the New York State Department of Environmental Conservation. May 2025.

EEEG, 2025b. *October 2024 and March 2025 Semi-Annual Groundwater Data Summary – Carriage Cleaners – NYSDEC Site No. 828120*. Prepared for the New York State Department of Environmental Conservation. July 2025.

MACTEC Engineering and Consulting, P.C. (MACTEC), 2012. *Final Engineering Report – Carriage Cleaners Remedial Action – Site No. 828120.* Prepared for the New York State Department of Environmental Conservation. June 2012.

MACTEC, 2013. *Site Management Plan - Carriage Cleaners Site – Site #828120*. Prepared for the New York State Department of Environmental Conservation. September 2013.

MACTEC, 2016. *Remedial System Optimization Report – Carriage Cleaners Site – Site #828120*. Prepared for the New York State Department of Environmental Conservation. October 2016.

MACTEC, 2017b. *Soil Vapor Extraction Rebound Study Work Plan – Carriage Cleaners Site – Site #828120.* Prepared for the New York State Department of Environmental Conservation. November 2017.

MACTEC, 2018a. *Periodic Review Report No. 6 (July 1, 2017 – June 30, 2018) – Carriage Cleaners-Brighton – NYSDEC Site No. 828120*. Prepared for the New York State Department of Environmental Conservation. November 2018.

MACTEC, 2018b. *Bedrock Remediation Evaluation Pilot Test Work Plan – Carriage Cleaners Site #828120.* Prepared for the New York State Department of Environmental Conservation. December 2018.

MACTEC, 2019a. *Operations, Maintenance and Monitoring Progress Report (Final) – Third Quarter 2019 - Carriage Cleaners Site – Site #828120*. Prepared for the New York State Department of Environmental Conservation. December 2019.

MACTEC, 2019b. *Periodic Review Report No. 7 (July 1, 2018 – June 30, 2019) – Carriage Cleaners-Brighton – NYSDEC Site No. 828120*. Prepared for the New York State Department of Environmental Conservation. December 2019.

MACTEC Engineering and Geology, P.C. (MACTEC), 2020a. Operations, Maintenance and Monitoring Progress Report – Fourth Quarter 2019 - Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. July 2020.

MACTEC, 2020b. Remedial System Optimization Evaluation Report – Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. July 2020.

MACTEC, 2020c. Operations, Maintenance and Monitoring Progress Report – First Quarter 2020 - Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. August 2020.

MACTEC, 2020d Operations, Maintenance and Monitoring Progress Report – Second Quarter 2020 - Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. August 2020.

MACTEC, 2021a. Remedial System Optimization Evaluation Report – Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. January 2021.

MACTEC, 2021b. Operation, Maintenance and Monitoring Report – Third Quarter 2020 – Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. March 2021.

MACTEC, 2021c. Operation, Maintenance and Monitoring Report – Fourth Quarter 2020 and First Quarter 2021 – Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. June 2021.

MACTEC, 2021d. Operation, Maintenance and Monitoring Report – Second Quarter 2021 – Carriage Cleaners Site – Site #828120. Prepared for the New York State Department of Environmental Conservation. August 2021.

MACTEC, 2022. Remedial System Optimization Work Plan – Carriage Cleaners-Brighton – NYSDEC Site No. 828120. Prepared for the New York State Department of Environmental Conservation. January 2022.

MACTEC, 2022a. Site Management Plan – Revision 3 - Carriage Cleaners-Brighton – NYSDEC Site No. 828120. Prepared for the New York State Department of Environmental Conservation. April 2022.

MACTEC, 2022b. Periodic Review Report No. 10 (July 14, 2021 – July 1, 2022) - Carriage Cleaners-Brighton – NYSDEC Site No. 828120. Prepared for the New York State Department of Environmental Conservation. September 2022.

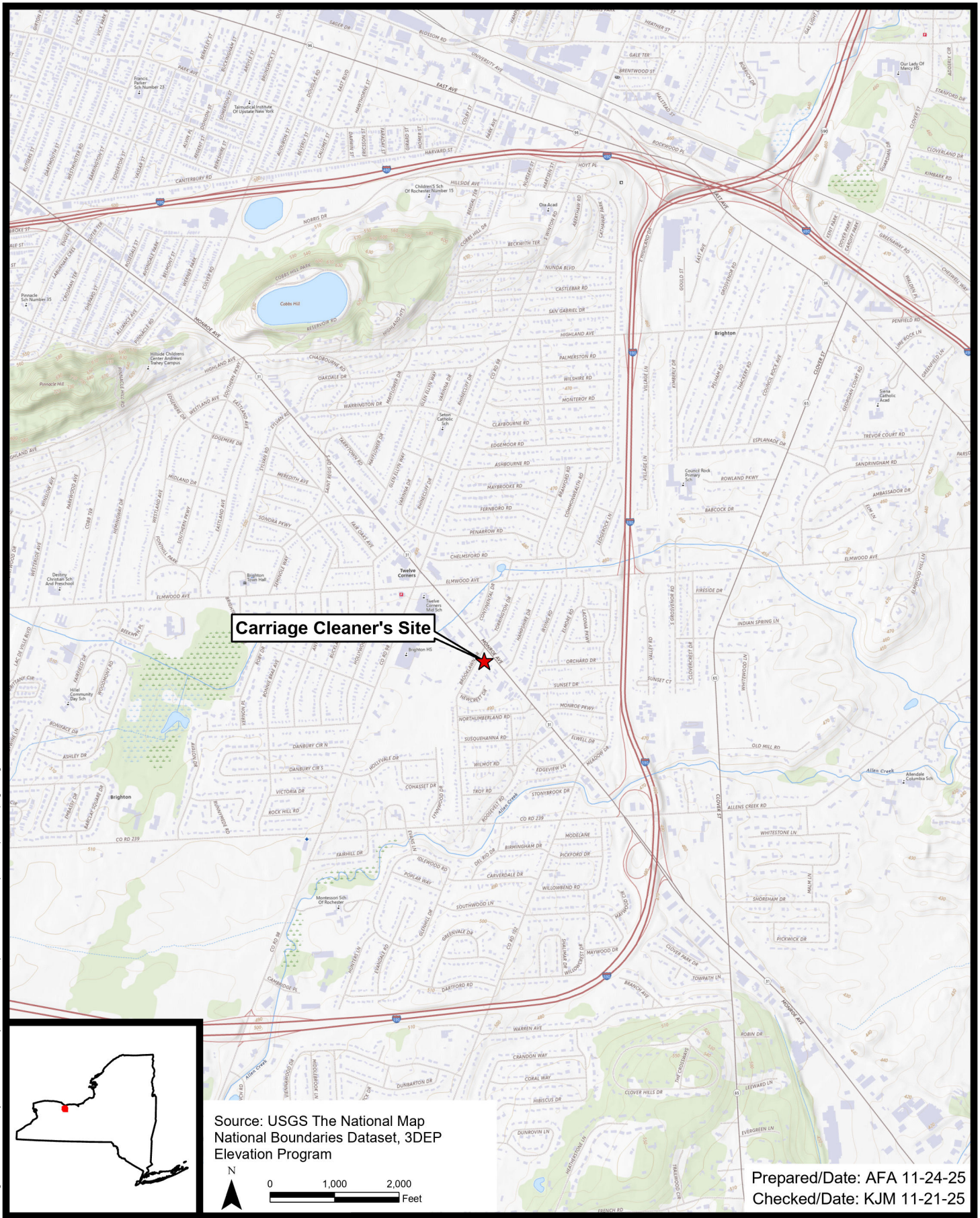
MACTEC, 2023. RSO Installation Performance Criteria Letter - Carriage Cleaners-Brighton – NYSDEC Site No. 828120. Prepared for the New York State Department of Environmental Conservation. May 2023.

New York State Department of Environmental Conservation (NYSDEC), 2008. Record of Decision, Carriage Cleaners – Brighton Site. Town of Brighton, Monroe County, New York. Site Number 8-28-120. March 2008.

NYSDEC, 2025. Implementing Green and Sustainable Remediation Practices in New York State. September 2025.

O'Brien and Gere Engineers, Inc. (OBG), 2007. Remedial Investigation Report Remedial Investigation/Feasibility Study – Carriage Cleaners – Site No. 8-28-120. Town of Brighton, NY. January 31, 2007.

FIGURES

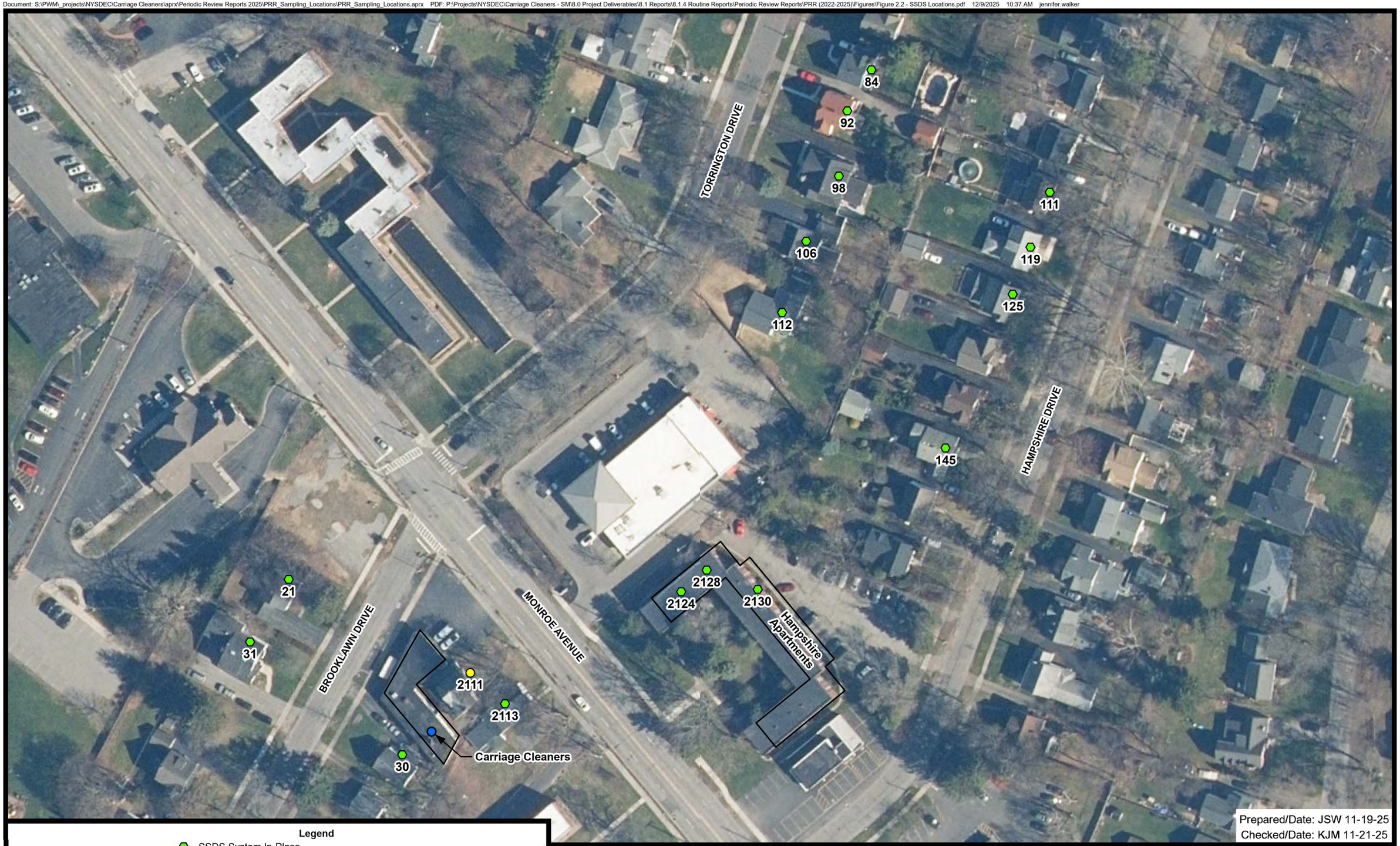


NYSDEC Site #828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Site Location
Project 3616206118
Figure 1.1

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\Site_location
PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 1.1 - Site Location11-24-2025 9:08 AM ariel.anderson



Legend

- SSDS System In-Place
- House is currently abandoned and SSDS is not in operation
- Onsite SSDS

N

0 40 80 Feet

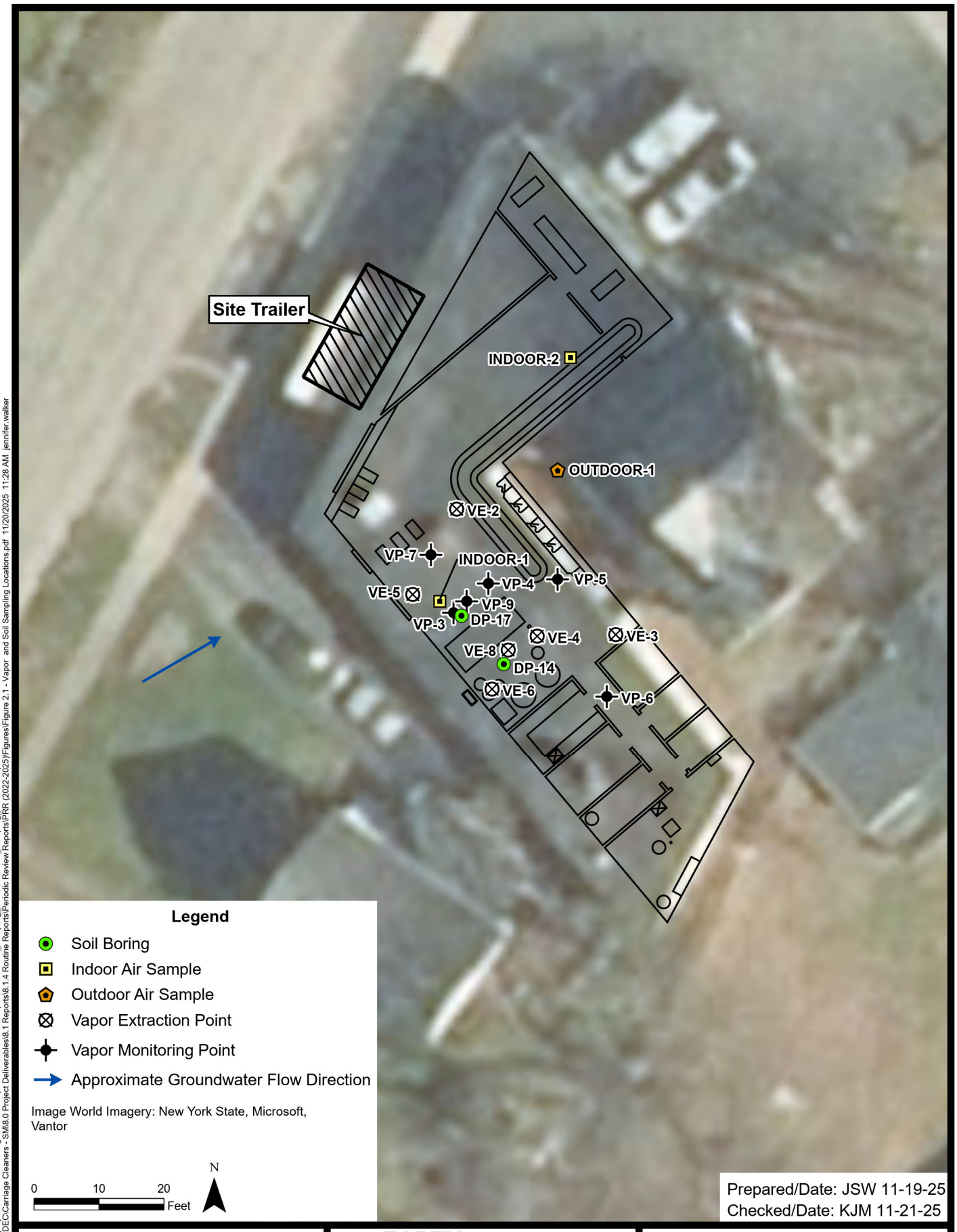
Monroe County color digital orthoimagery (2023) obtained from New York State GIS Clearinghouse at: gis.ny.gov

Prepared/Date: JSW 11-19-25
Checked/Date: KJM 11-21-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Onsite and Offsite Sub-Slab Depressurization System (SSDS) Locations
Project 3616206118 Figure 1.2

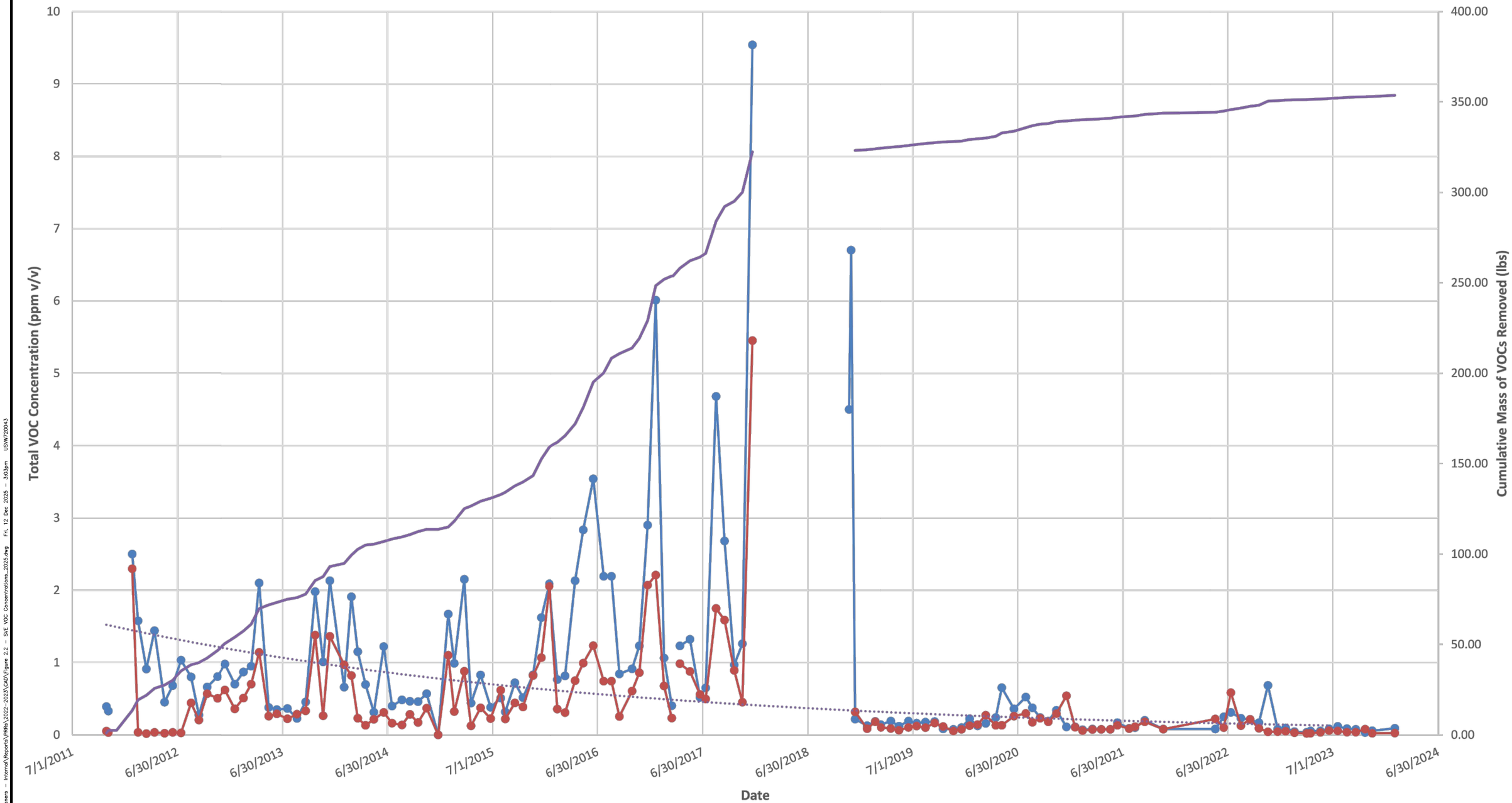


NYSDEC
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Vapor and Soil
Sampling Locations
Project 3616206118 Figure 2.1

Document: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\PRR_Sampling_Locations\PRR_Sampling_Locations.aprx
PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.1 - Vapor and Soil Sampling Locations.pdf 11/20/2025 11:28 AM jennifer.walker



LEGEND

Influent
Effluent
VOC Mass Removed
Expon. (Trend)

REV.	DATE	STATUS	BY

EEEG PROJECT No. 3616206118

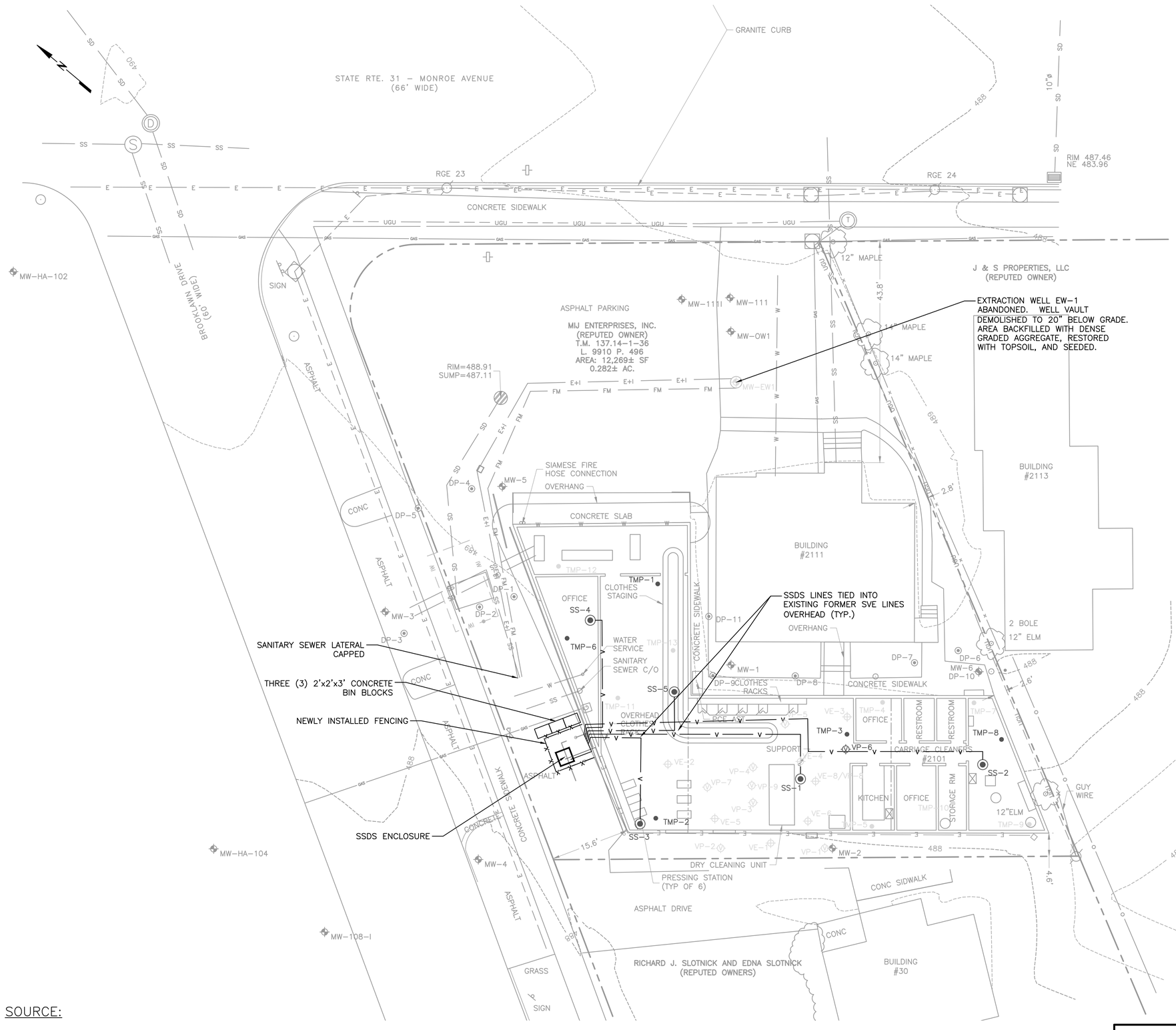
PREPARED/DATE: VMW 12/12/25

CHECKED/DATE: KJM 12/12/25

EARTH ENVIRONMENT
Engineering and Geology P.C.

FIGURE 2.2
SVE INFLUENT AND EFFLUENT
VOC CONCENTRATION
CARRIAGE CLEANERS
NYSDEC SITE NO. 828120
BRIGHTON, NEW YORK

C:\Users\USVW720043\WSP 0365\NYSDEC Carriage Cleaners - Internal\Reports\PRRs\2022-2023\CAD\Figure 2.2 - SVE VOC Concentrations_2025.dwg Fri, 12 Dec 2025 - 3:03pm USVW720043



LEGEND:

DP–4	EXISTING DIRECT PUSH BORING
MW–5	EXISTING MONITORING WELL
EW–1	EXISTING MONITORING WELL (ABANDONED MAY 2025)
VE–3	PRE–CONVERSION VAPOR EXTRACTION POINT (ABANDONED MARCH 2025)
VP–6	PRE–CONVERSION VAPOR MONITORING POINT (ACTIVE)
VP–7	PRE–CONVERSION VAPOR MONITORING POINT (ABANDONED OCTOBER 2025)
SS–1	NEW VAPOR EXTRACTION POINT (ACTIVE)
TMP–1	NEW VAPOR MONITORING POINT (ACTIVE)
TMP–4	NEW VAPOR MONITORING POINT (ABANDONED MARCH 2024 OR OCTOBER 2025)

NOTES:

1. SVE = SOIL VAPOR EXTRACTION
2. SSDS = SUB–SLAB DEPRESSURIZATION SYSTEM
3. INTERNAL BUILDING EQUIPMENT DEPICTED ON THIS DRAWING MAY HAVE BEEN REMOVED BY PROPERTY OWNER.
4. EXTRACTION WELL EW–1 PUMP AND TRANSDUCER REMOVED DURING SVE–TO–SSDS CONVERSION IN FEBRUARY 2024, BUT WELL WAS NOT ABANDONED UNTIL MAY 2025, AFTER SSDS COMMISSIONING HAD BEEN COMPLETED.
5. VE–8/VP–8 SVE PIPING WAS DISCONNECTED AND SEALED DURING SVE–TO–SSDS CONVERSION IN FEBRUARY 2024, BUT WAS NOT ABANDONED UNTIL OCTOBER 2025, AFTER SSDS COMMISSIONING HAD BEEN COMPLETED.

SOURCE:

BASE SURVEY ADAPTED FROM FILE CARRIAGE_3DM.DWG BY POPLI CONSULTING ENGINEERS & SURVEYORS DATED MARCH 30, 2009.

0 5 10 20
SCALE IN FEET

Carriage Cleaners
2101 Monroe Avenue, Brighton, New York
NYSDEC Site #828120

EARTH ENVIRONMENT
Engineering and Geology P.C.

Figure 2.3
SSDS Layout Plan
Project # US-EI-3616206118

X:\US\USPRW\105-P\02\Project\Projects\OASIS-PORT\Projects\system1\Carriage Cleaners\MSK\Figure 2.2 Final SSs Layout.dwg Thu, 08 Jan 2026 - 1:52pm dswiatosk

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\PRR_Sampling_Locations
PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.3 - Groundwater Monitoring Well Locations.pdf 11-20-2025 11:41 AM ariel.anderson

NYSDEC Site #828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Monitoring Well Locations

Project 3616206118 Figure 2.4

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2022 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023)_Draft\Figures\Figure 2.4 - Groundwater Contours October 2022 11-20-2025 11:54 AM ariel.anderson

Legend

- Monitoring Well
- Carriage Cleaners Building
- Former Speedy's Cleaners Building
- Groundwater Contour October 2022
- (dashed where inferred)
- Groundwater Flow Direction
- MW-202 = Well ID
- 476.97 = Water level in feet above sea level

N

0 75 150 Feet

Note: Contours partially based on site history and not all wells used in contouring

Prepared/Date: AFA 11-20-25
Checked/Date: KJM 12-08-25

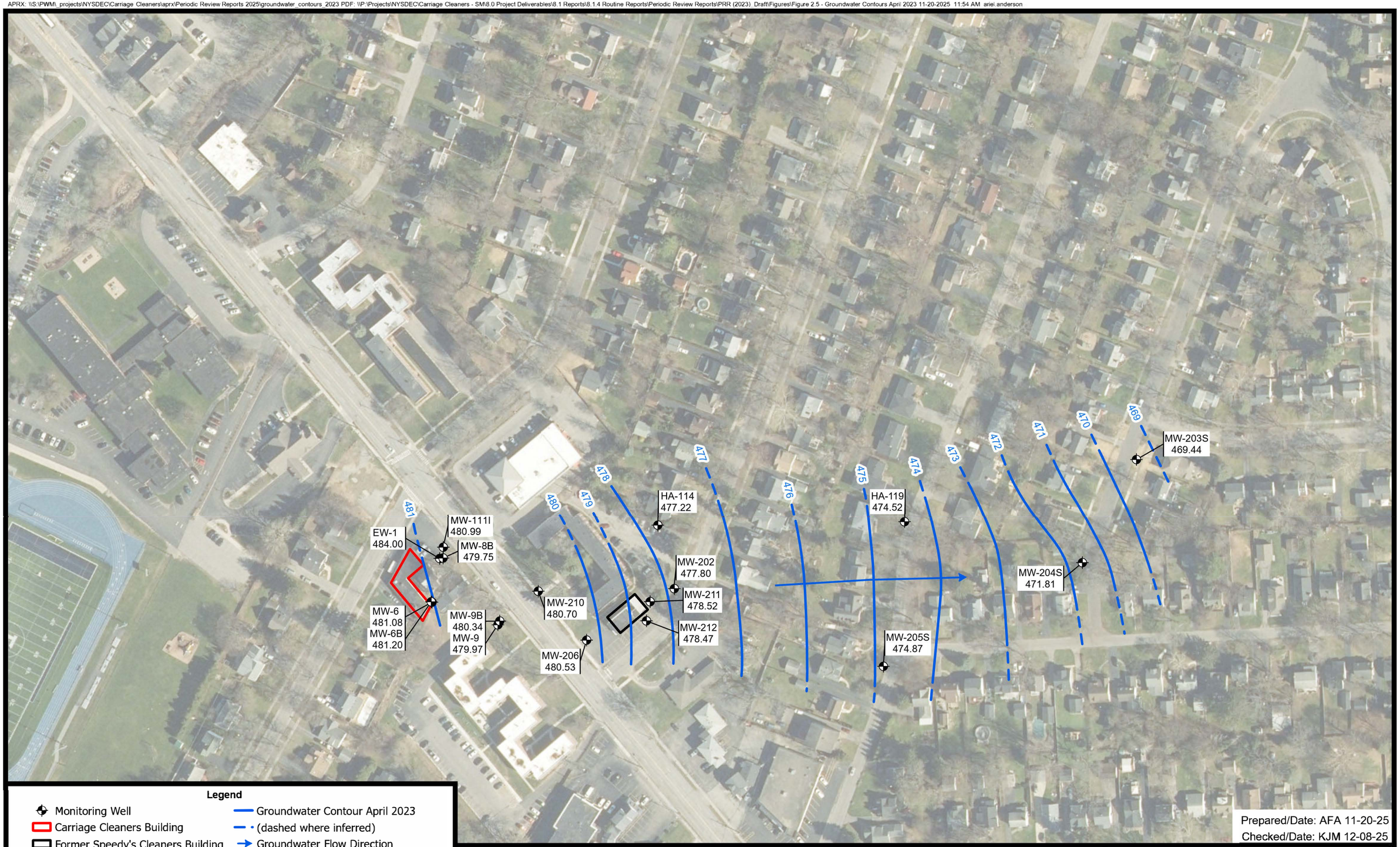
NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Contours October 2022

Project 3616206118 Figure 2.5

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2023 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023) Draft\Figures\Figure 2.5 - Groundwater Contours April 2023 11-20-2025 11:54 AM ariel.anderson



NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Contours April 2023

Project 3616206118 Figure 2.6

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2023 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023) Draft\Figures\Figure 2.5 - Groundwater Contours October 2023 11-24-2025 11:54 AM ariel.anderson

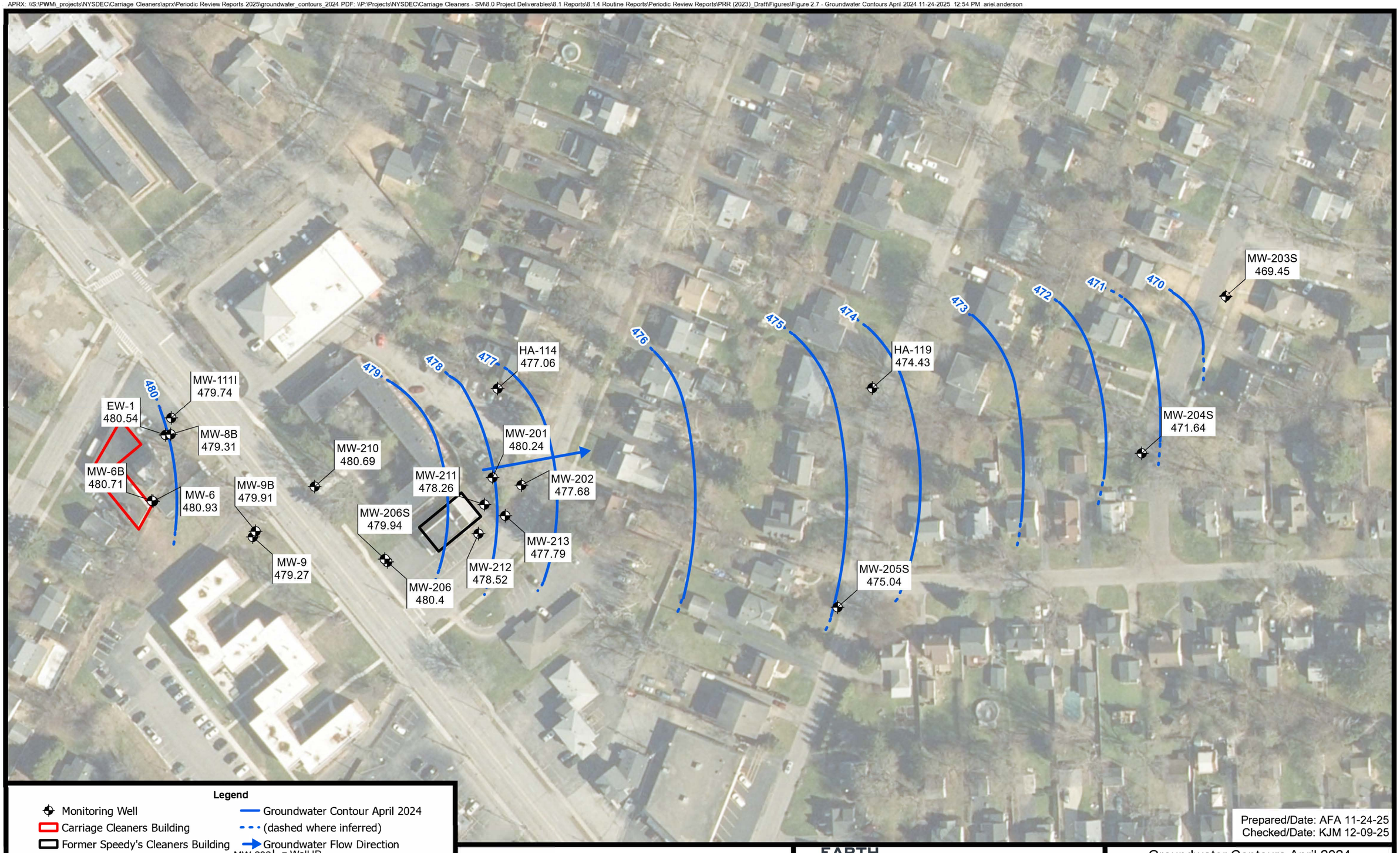
NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Contours October 2023

Project 3616206118 Figure 2.7

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2024 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023)_Draft\Figures\Figure 2.7 - Groundwater Contours April 2024 11-24-2025 12:54 PM ariel.anderson



NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Contours April 2024

Project 3616206118 Figure 2.8

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2024 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023) Draft\Figures\Figure 2.8 - Groundwater Contours October 2024 11-24-2025 12:54 PM ariel.anderson

Legend

- Monitoring Well
- Carriage Cleaners Building
- Former Speedy's Cleaners Building
- Groundwater Contour October 2024
- (dashed where inferred)
- Groundwater Flow Direction
- MW-202 / 477.34 = Well ID / Water level in feet above sea level

N

0 75 150 Feet

Note: Contours partially based on site history and not all wells used in contouring

NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Prepared/Date: AFA 11-24-25
Checked/Date: KJM 12-05-25

Groundwater Contours October 2024

Project 3616206118 Figure 2.9

APRX: \\S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_contours_2025 PDF: \\P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2023)_Draft\Figures\Figure 2.9 - Groundwater Contours March 2025 11-24-2025 12:54 PM ariel.anderson

Legend

- Monitoring Well
- Carriage Cleaners Building
- Former Speedy's Cleaners Building
- Groundwater Flow Direction
- (dashed where inferred)
- Groundwater Contour March 2025

MW-202 = Well ID
478.5 = Water level in feet above sea level

Note: Contours partially based on site history and not all wells used in contouring

N

0 75 150 Feet

Prepared/Date: AFA 11-24-25
Checked/Date: KJM 12-08-25

NYSDEC Site #828120
Carriage Cleaners
Brighton, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

Groundwater Contours March 2025

Project 3616206118 Figure 2.10

APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2022 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.10 - Extent of PCE in Groundwater October 2022.pdf 11-21-2025 8:45am ariel.anderson

Prepared/Date: AFA 11-21-25
Checked/Date: KJM 11-21-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
October 2022
Project 3616206118 Figure 2.11

APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2023 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.11 - Extent of PCE in Groundwater April 2023.pdf 11-21-2025 9:15am ariel.anderson

Prepared/Date: AFA 11-21-25
Checked/Date: KJM 11-21-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
April 2023
Project 3616206118 Figure 2.12

APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2023 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.11 - Extent of PCE in Groundwater October 2023.pdf 11-21-2025 10:35am ariel.anderson

Prepared/Date: AFA 11-21-25
Checked/Date: KJM 12-02-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
October 2023
Project 3616206118 Figure 2.13

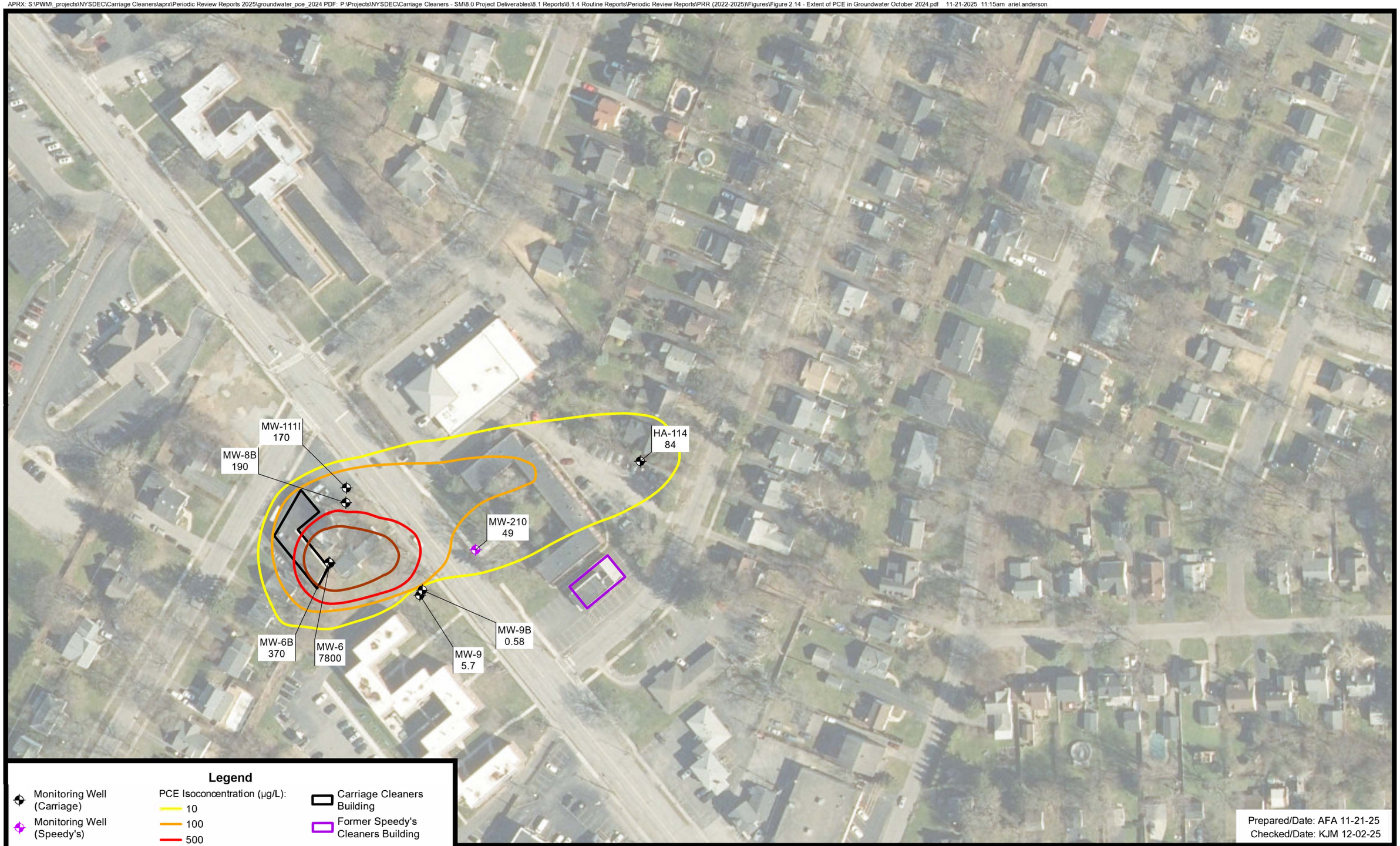
APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2024 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.13 - Extent of PCE in Groundwater April 2024.pdf 11-21-2025 10:45am ariel.anderson

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
April 2024
Project 3616206118 Figure 2.14

APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2024 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.14 - Extent of PCE in Groundwater October 2024.pdf 11-21-2025 11:15am ariel.anderson



Prepared/Date: AFA 11-21-25
Checked/Date: KJM 12-02-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
October 2024
Project 3616206118 Figure 2.15

APRX: S:\PWM_projects\NYSDEC\Carriage Cleaners\aprx\Periodic Review Reports 2025\groundwater_pce_2025 PDF: P:\Projects\NYSDEC\Carriage Cleaners - SM\8.0 Project Deliverables\8.1 Reports\8.1.4 Routine Reports\Periodic Review Reports\PRR (2022-2025)\Figures\Figure 2.15 - Extent of PCE in Groundwater March 2025.pdf 11-24-2025 1:08PM ariel.anderson

Prepared/Date: AFA 11-24-25
Checked/Date: KJM 12-02-25

NYSDEC Site # 828120
Carriage Cleaners Site
Brighton, NY

EARTH ENVIRONMENT
Engineering and Geology P.C.

Extent of PCE in Groundwater
March 2025
Project 3616206118 Figure 2.16

TABLES

Table 2.1: PCE Concentrations in Subsurface Soil

Boring Location	December 1, 2008		September 1, 2013		March 1, 2017	
	Depth Interval (ft bgs)	PCE Concentration (ppm)	Depth Interval (ft bgs)	PCE Concentration (ppm)	Depth Interval (ft bgs)	PCE Concentration (ppm)
DP-14	6	**290**	4 – 6	**140.01**	4 – 6	0.0061
			6 – 8	**39.01**	6 – 8	0.019
			10 – 11.5	0.85	10 – 11.5	Not Sampled

Notes:

Results in **bold** exceed the soil clean up objective for protection of groundwater of 1.3 ppm.

ft bgs = feet below ground surface

ppm = parts per million

PCE = tetrachloroethene

Prepared by: KJM 08/21/2023
Checked by: VMW 08/25/2023

Table 2.2: Monitoring Well Water Level Measurements

Well IDs	Northing	Easting	TOC Elevation (ft)	October 2022		April 2023		October 2023		April 2024		October 2024		March 2025		Site
				DTW Level (ft)	Water Level Elevation (ft amsl)	DTW Level (ft)	Water Level Elevation (ft amsl)	DTW Level (ft)	Water Level Elevation (ft amsl)	DTW Level (ft)	Water Level Elevation (ft amsl)	DTW Level (ft)	Water Level Elevation (ft amsl)	DTW Level (ft)	Water Level Elevation (ft amsl)	
EW-1	1139726.244	1421079.581	489.21	10.50	478.71	5.21	484.00	7.19	482.02	8.67	480.54	9.91	479.30	8.58	480.63	Carriage
HA-112	1139464.0	1421323.2	486.55									7.64	478.91	5.79	480.76	Former Speedy's
HA-114	1139782.288	1421447.223	485.02	8.95	476.07	7.80	477.22	8.78	476.24	7.96	477.06	8.64	476.38	7.30	477.72	Carriage
HA-115	1139964.4	1421591.0	484.14									7.04	477.10	6.43	477.71	Carriage
HA-117	1140445.7	1421771.6	480.08									9.04	471.04	7.95	472.13	Carriage
HA-118	1140130.1	1421994.5	479.96									7.08	472.88	6.73	473.23	Carriage
HA-119	1139788.0	1421862.9	481.97	7.61	474.36	7.45	474.52	8.44	473.53	7.54	474.43	8.19	473.78	7.14	474.83	Former Speedy's
HA-122	1139989.1	1421636.1	482.90									7.91	474.99	7.18	475.72	Carriage
MW-111I	1139745.197	1421085.641	489.17	11.04	478.13	8.18	480.99	10.97	478.20	9.43	479.74	10.55	478.62	9.10	480.07	Carriage
MW-6	1139652.675	1421066.565	488.26	9.10	479.16	7.18	481.08	9.34	478.92	7.33	480.93	8.75	479.51	7.36	480.90	Carriage
MW-6B	1139653.369	1421065.272	488.26	9.35	478.91	7.06	481.20	9.34	478.92	7.55	480.71	8.91	479.35	7.19	481.07	Carriage
MW-8B	1139726.966	1421085.226	487.66	9.79	477.87	7.91	479.75	9.91	477.75	8.35	479.31	9.42	478.24	8.06	479.60	Carriage
MW-9	1139614.688	1421177.678	486.11	8.51	477.60	6.14	479.97	8.63	477.48	6.84	479.27	8.03	478.08	6.21	479.90	Carriage
MW-9B	1139620.959	1421180.713	485.65	7.91	477.74	5.31	480.34	7.79	477.86	5.74	479.91	7.47	478.18	5.43	480.22	Carriage
MW-201	1139683.63	1421442.87	486.33							6.09	480.24	7.36	478.97	5.48	480.85	Carriage
MW-202	1139675.55	1421474.94	484.89	7.92	476.97	7.09	477.80	8.04	476.85	7.21	477.68	7.55	477.34	6.39	478.50	Former Speedy's
MW-202I	1139666.58	1421471.08	485.39									39.58	445.81	37.55	447.84	Former Speedy's
MW-203S	1139893.9	1422253.7	478.51	9.42	469.09	9.07	469.44	9.31	469.20	9.06	469.45	9.72	468.79	8.93	469.58	Former Speedy's
MW-204S	1139719.2	1422162.6	478.86	7.55	471.31	7.05	471.81	7.51	471.35	7.22	471.64	7.22	471.64	6.83	472.03	Former Speedy's
MW-205S	1139544.9	1421827.3	482.05	7.45	474.60	7.18	474.87	7.39	474.66	7.01	475.04	7.38	474.67	6.90	475.15	Former Speedy's
MW-206	1139588.95	1421327.16	486.74	8.24	478.50	6.21	480.53	7.97	478.77	6.34	480.40	7.71	479.03	5.88	480.86	Former Speedy's
MW-206S	1139592.02	1421324.36	486.64							6.70	479.94	7.82	478.82	6.16	480.48	Former Speedy's
MW-210	1139671.22	1421245.63	486.78	7.95	478.83	6.08	480.70	7.94	478.84	6.09	480.69	7.49	479.29	6.04	480.74	Carriage
MW-211	1139653.59	1421434.22	485.96	8.21	477.75	7.44	478.52	8.32	477.64	7.70	478.26	8.04	477.92	6.82	479.14	Former Speedy's
MW-211A	1139658.5	1421425.9	486.57											7.33	479.24	Former Speedy's
MW-212	1139621.36	1421428	485.44	7.62	477.82	6.97	478.47	7.59	477.85	6.92	478.52	7.01	478.43	6.06	479.38	Former Speedy's
MW-212A	1139626.73	1421423.87	486.25									7.71	478.54	6.86	479.39	Former Speedy's
MW-213	1139641.57	1421457.47	485.02							7.23	477.79	7.40	477.62	6.12	478.90	Former Speedy's

Notes:

Northern/Eastern/Elevation Reference: Horizontal Coordinates reference to the New York State Plane Coordinate System, West Zone NAD 83/96. Vertical Datum is NAVD88.

ft = feet
ft amsl = feet above mean sea level
DTW = depth to water
TOC = top of casing

Prepared by: AJ 07/17/2023
Checked by: VMW 08/25/2023

Table 2.3: Groundwater Monitoring Wells and Extraction Well PCE Concentrations

	Monitoring Wells								
Sample Date	**MW-111I**	**HA-114**	**MW-210**	**MW-8B**	**MW-9**	**MW-9B**	**MW-6B**	**MW-6**	**EW-1**
1/19/2009	240	-	230	-	-	-	-	13000	
12/1/2012	-	31	-	-	-	-	-	24000	
2/27/2013	-	-	4.3	-	-	-	-	-	-
10/10/2013*	-	-	5.1	-	-	-	470	-	-
4/4/2014	-	-	2.6	-	-	-	-	-	-
12/17/2014	83	13	3.5	-	-	-	-	-	-
5/26/2015	96	55	1.8	620	-	ND	-	-	-
8/25/2015	150	76	2.8	810	5.5	ND	-	-	-
4/25/2016	200	6.3	1.1	450	1.9	ND	-	-	-
11/9/2016	290	19	160	380	3.9	46	-	-	-
5/10/2017	190	2.3	7.5	140	1.7	0.73	-	-	-
11/1/2017 [a]	92	10	5.6	490	5.1	ND	-	-	-
5/2/2018 [b]	170	42	2.6	480	0.94	ND	-	-	-
11/14/2018	44	60	3.7	380	ND	6.5	-	-	-
1/23/2019	-	-	-	-	-	-	335	-	-
2/6/2019	-	-	-	-	-	-	1400	-	-
2/20/2019	-	-	-	-	-	-	130	-	-
3/14/2019	-	-	-	-	-	-	78.5	-	-
3/21/2019	-	-	-	-	-	-	26	-	-
4/3/2019	-	-	-	-	-	-	19.5	-	-
4/17/2019	-	-	-	-	-	-	12	-	-
5/1/2019	49	30	1.2	290	2.2	-	5.8	31000	-
5/15/2019	-	-	-	200	-	-	-	-	-
6/12/2019	-	-	-	300	-	-	-	-	-
6/25/2019	-	-	-	290	-	-	-	-	-
7/1/2019	-	-	-	380 F1	-	-	-	-	-
10/16/2019	130 E	140 E	8	620 E	1.2	ND	1000 E	5500	-
3/30/2020 [c]	88	30	1.7	380	2.3	ND	5.3	32000	-
11/11/2020	5.7	130	8.7	540	3.2	ND	1500	-	-
3/20/2021 [d]	2.6	41	16	320	5.7	ND	410	27000	-
4/12/22 and 4/13/22	58	9.6	13 J+	220	1.9	ND	3.2	19000	37
10/24/2022 [d]	140	170	50	380	4.6	ND	990	2000	45
04/10/2023 [d]	110	29	36 J-	200	1.1	ND	160	25000	61
10/20/2023 [d]	76	120	47	300	7.4	5.7	3200	400	69
04/26/2024 [d]	90	23	35	120	ND	ND	4.1	24000	76
10/29/2024 [d]	170	84	49	190	5.7	0.58 J	370	7800	57
03/11/2025 [d]	65	23	23	60	4.8	10	5.1	19000	65

Notes:

RemOx® SR permanganate cylinders were installed in MW-6 and MW-6B during second quarter of 2014 and removed December 2018 and were not sampled during this period

Groundwater extraction pilot testing conducted at MW-6B and MW-8B from December 2018 to July 1019

Concentrations are reported in micrograms per liter (µg/L)

– not sampled

ND = non-detect

* = Sample from MW-6B collected in December 2013.

(a) Sample for well HA-114 was collected on 11/2/2017

(b) Samples for wells HA-114 and MW-210 were collected on 5/3/2018

(c) Samples for wells MW-9, MW-9B, MW-210, and HA-114 were collected on 3/31/2020

(d) Samples were taken throughout the week of the date indicated.

F1 = MS and/or MSD Recovery is outside acceptance limits

E = Result exceeded calibration range

J = Concentration was estimated

J- = Concentration was estimated, potentially biased low

J+ = Concentration was estimated, potentially biased high

H = Sample was prepped or analyzed beyond the specified holding time

PCE = tetrachloroethene

ND = not detected above the laboratory reporting limit

Prepared by: VMW 05/14/2025
Checked by: KJM 07/31/2025

Table 2.4: Historical PCE and Daughter Products Groundwater Results Table

Date		Sampling Location																	
Semi-Annual Sampling	System Sampling	EW-1 / Influent						MW-111I						HA-114					
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
1/19/2009	NA	-	-	-	-	-	-	240	140	920	7	-	110	11	6.8	540	9.3	08.3 J	160
12/1/2012	12/13/2012	560	100	160	ND	ND	ND	-	-	-	-	-	-	31	15	31	ND	ND	10
2/14/2013	2/15/2013	400	66	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2013	10/22/2013	960	280	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
4/4/2014	4/15/2019	190	27	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2014	12/23/2014	400	67	ND	ND	ND	1.9	83	9.7	110	ND	ND	24	13	2.2	8.5	ND	ND	2.1
5/26/2015	5/19/2015	590	59	ND	ND	ND	ND	96	13	44	ND	ND	21	55	10	23	ND	ND	3.5
8/25/2015	8/13/2015	660	83	ND	ND	ND	6.2	150	38	130 E	0.96	ND	34	76	15	29	ND	ND	4.1
4/25/2016	4/13/2016	430	35	ND	ND	ND	ND	200	21	46	ND	ND	6.5	6.3	0.97	4.4	ND	ND	1.9
11/9/2016	10/28/2016	150	39	ND	ND	ND	4.2	290	110 E	260 E	1.6	0.5	81	19	6.2	160	ND	ND	46
5/10/2017	5/17/2017	320	21	ND	ND	ND	ND	190	28	66	ND	ND	7.3	2.8	2.9	32	ND	ND	5
11/1/17*	11/15/2017	190	19	ND	ND	ND	ND	92	18	77	ND	ND	14	10	1.8	14	ND	ND	2.1
5/2/2018**	5/9/2018	330	17	ND	ND	ND	ND	170	33	75	ND	ND	20	42	6.7	14	ND	ND	ND
11/14/2018	11/14/2018	420	66	ND	ND	ND	ND	44	0.79	ND	ND	ND	ND	60	11	16	ND	ND	0.98
5/1/2019	5/15/2019	200	13	ND	ND	13	ND	49	7.9	39	ND	ND	12	30	5.7	12	ND	ND	ND
10/16/2019	10/15/2019	600	100	140	ND	ND	ND	100	38	140	ND	ND	51	140	30	41	ND	ND	5.8
3/30/2020	3/11/2020	120	8.6	8	ND	ND	ND	88	12	69	ND	ND	18	30	5.9	12	ND	ND	ND
11/12/2020	11/11/2020	45	1.4	1.2	ND	ND	ND	5.7	ND	ND	ND	ND	ND	130	26	35	ND	ND	2.4
3/30/2021	3/16/2021	21	3.1	6.2	ND	ND	ND	2.6	3.8	5.8	ND	ND	ND	41	7.5	6.5	ND	ND	ND
4/12/22 and 4/13/22	NA	37	5.2	9.6	ND	ND	ND	58	13	88	0.76 J	0.2 J	6.5	9.6	1.9	1.5	ND	ND	0.32 J
10/24/2022 a	NA	45	1.4	0.68 J	ND	ND	ND	140	40	110	ND	0.22 J	14	170	31	31	0.45 J	ND	1.4 J
04/10/2023 a	NA	61	6.8	10	0.22 J	ND	ND	110	21	15	ND	ND	3.2 J	29	2.5	2.5	ND	ND	ND
10/20/2023 a, b	NA	69	4.9	4.4	ND	ND	0.78 J	76	19	46	0.48 J	ND	9.8	120	23	23	0.29 J	ND	1 J
04/26/2024 a, b	NA	76	8.8	7	ND	ND	ND	90	12	10	ND	ND	1.7	23	4.3	1.3	ND	ND	ND
10/29/2024 a, b	NA	57	1.5	0.47 J	ND	ND	ND	170	32	27	0.34 J	ND	2	84	16	16	ND	ND	0.53 J
03/11/2025 a, b	NA	65	8.9	5.9	ND	ND	0.23 J	65	7.6	12	0.25 J	ND	3	23	4.2	0.93 J	ND	ND	ND

Notes:
1. Results are in micrograms per liter (µg/l)
2. ND = not detected above the laboratory reporting limit
3. "-" = not tested or not available
4. PCE = tetracloroethene
5. TCE = trichloroethene
6. DCE = dichloroethene
7. VC = vinyl chloride
8. a = Samples were taken throughout the week of the date indicated.
9. b = Samples were taken from extraction well EW-1 where soil vapor extraction (SVE) system is no longer operating.
10. NA = Groundwater extraction system no longer operating.
11. U = not detected above quantitation limit
12. J = concentration is estimated
13. J+ = concentration is estimated, potentially biased high
14. J- = concentration is estimated, potentially biased low

Prepared by VMW 07/14/2025
Checked by KJM 07/31/2025

Table 2.4: Historical PCE and Daughter Products Groundwater Results Table

Date		Sampling Location																	
Semi-Annual Sampling	System Sampling	MW-210						MW-6						MW-6B					
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
1/19/2009	NA	230	81	380	3.1	-	41	13000	140	240	ND	ND	ND	-	-	-	-	-	-
12/1/2012	12/13/2012	-	-	-	-	-	-	24000	16	2.2	ND	-	ND	-	-	-	-	-	-
2/14/2013	2/15/2013	4.3	0.96	2.2	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2013	10/22/2013	5.1	1.5	3.1	ND	ND	1.4	-	-	-	-	-	-	470	-	-	-	-	-
4/4/2014	4/15/2019	2.6	0.71	1.7	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2014	12/23/2014	3.5	1.1	2.6	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
5/26/2015	5/19/2015	1.8	0.57	0.99	ND	ND	ND	-	-	-	-	-	-	-					
8/25/2015	8/13/2015	2.8	0.68	1.1	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
4/25/2016	4/13/2016	1.1	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
11/9/2016	10/28/2016	160	36	33	ND	ND	1	-	-	-	-	-	-	-	-	-	-	-	-
5/10/2017	5/17/2017	7.5	2.2	1.8	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
11/1/17*	11/15/2017	5.6	1.7	1.4	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
5/2/2018**	5/9/2018	2.6	0.79	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
11/14/2018	11/14/2018	3.7	1.9	1.5	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
5/1/2019	5/15/2019	1.2	0.49	ND	ND	ND	ND	31000	ND	ND	ND	ND	ND	5.8	0.67	ND	ND	ND	ND
10/16/2019	10/15/2019	8	8.7	45	ND	ND	3	5500	ND	ND	ND	ND	ND	1000	57	ND	ND	ND	ND
3/30/2020	3/11/2020	1.7	0.69	ND	ND	ND	ND	32000	ND	ND	ND	ND	ND	5.3	0.93	ND	ND	ND	ND
11/12/2020	11/11/2020	8.7	5	20	ND	ND	2	1500	39	840	ND	ND	ND	1500	84	73	ND	ND	3.1
3/30/2021	3/16/2021	16	2.6	3.8	ND	ND	ND	27000	ND	ND	ND	ND	ND	410	27	34	ND	ND	ND
4/12/22 and 4/13/22	NA	13 J+	2.5	5.1	ND	ND	1.3 J	19000	ND (250 U)	ND (250 U)	ND (250 U)	ND (250 U)	ND (500 U)	3.2	0.43 J	1.1	ND	ND	ND
10/24/2022 a	NA	50	9.8	16 J-	ND	ND (1 UJ)	3.8 J+	2000	240	150	ND (50 U)	ND (50 U)	26 J	990	63	50	ND (10 U)	ND (10 U)	3.7 J
04/10/2023 a	NA	36 J-	3.9	6.2	ND	ND	1.3 J	25000	ND (400 U)	ND (400 U)	ND (400 U)	ND (400 U)	ND (800 U)	160	0.44 J	0.4 J	ND	ND	ND (4U)
10/20/2023 a, b	NA	47	9.1	13	ND	ND	1.4 J	400	30	29	ND (10 U)	ND (10 U)	2.8 J	3200	ND (50 U)	12 J	ND (50 U)	ND (50 U)	ND (100 U)
04/26/2024 a, b	NA	35	5.7	10	ND	ND	1.6	24000	ND (250 U)	ND (250 U)	ND (250 U)	ND (250 U)	ND (250 U)	4.1	0.3 J	0.3 J	ND	ND	ND
10/29/2024 a, b	NA	49	8.7	14	ND	ND	1.6	7800	6.5 J	11 J	ND (25 U)	ND (25 U)	ND (25 U)	370	32	31	ND	ND	2.6
03/11/2025 a, b	NA	23	4.6	8.1	ND	ND	1.9	19000	ND (50 U)	ND (50 U)	ND (50 U)	ND (50 U)	ND (50 U)	5.1	0.38 J	0.74 J	ND	ND	ND

Notes:
1. Results are in micrograms per liter (µg/l)
2. ND = not detected above the laboratory reporting limit
3. "-" = not tested or not available
4. PCE = tetracloroethene
5. TCE = trichloroethene
6. DCE = dichloroethene
7. VC = vinyl chloride
8. a = Samples were taken throughout the week of the date indicated.
9. b = Samples were taken from extraction well EW-1 where soil vapor extraction (SVE) system is no longer operating.
10. NA = Groundwater extraction system no longer operating.
11. U = not detected above quantitation limit
12. J = concentration is estimated
13. J+ = concentration is estimated, potentially biased high
14. J- = concentration is estimated, potentially biased low

Prepared by VMW 07/14/2025
Checked by KJM 07/31/2025

Table 2.4: Historical PCE and Daughter Products Groundwater Results Table

Date		Sampling Location																	
Semi-Annual Sampling	System Sampling	MW-8B						MW-9						MW-9B					
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	VC
1/19/2009	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/1/2012	12/13/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/14/2013	2/15/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2013	10/22/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/4/2014	4/15/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2014	12/23/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/26/2015	5/19/2015	620						-	-	-	-	-	-	ND					
8/25/2015	8/13/2015	810	13	21	ND	ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/25/2016	4/13/2016	450	11	15	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/9/2016	10/28/2016	380	28	50	ND	ND	ND	3.9	ND	ND	ND	ND	ND	46	6.4	11	ND	ND	ND
5/10/2017	5/17/2017	140	16	12	ND	ND	ND	1.7	ND	ND	ND	ND	ND	0.73	ND	ND	ND	ND	ND
11/1/17*	11/15/2017	490	17	27	ND	ND	ND	5.19	ND	ND	ND	ND	ND	ND	0.68	1.2	ND	ND	ND
5/2/2018**	5/9/2018	480	19	21	ND	ND	ND	0.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/14/2018	11/14/2018	380	7	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND
5/1/2019	5/15/2019	290	12	16	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/16/2019	10/15/2019	640	46	64	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/30/2020	3/11/2020	380	19	25	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11/12/2020	11/11/2020	540	15	11	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/30/2021	3/16/2021	320	14	15	ND	ND	ND	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/12/22 and 4/13/22	NA	220	7.1	6.7	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/24/2022 a	NA	380	16	14	ND	ND	ND	4.6	0.51 J	ND	ND	ND	ND	ND	ND	0.32J	ND	ND	ND
04/10/2023 a	NA	200	10	9.5	ND (4U)	ND (4U)	ND (8U)	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/20/2023 a, b	NA	300	130	230	1 J	ND (4U)	20	7.4	0.38 J	ND	ND	ND	ND	5.7	ND	ND	ND	ND	ND
04/26/2024 a, b	NA	120	15	ND (15 U)	ND	ND	0.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/29/2024 a, b	NA	190	21	28	ND	ND	0.66 J	5.7	0.3 J	ND	ND	ND	ND	0.58 J	ND	ND	ND	ND	ND
03/11/2025 a, b	NA	60	8.9	9.7	ND	ND	0.37 J	4.8	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND

Notes:
1. Results are in micrograms per liter (µg/l)
2. ND = not detected above the laboratory reporting limit
3. "-" = not tested or not available
4. PCE = tetracloroethene
5. TCE = trichloroethene
6. DCE = dichloroethene
7. VC = vinyl chloride
8. a = Samples were taken throughout the week of the date indicated.
9. b = Samples were taken from extraction well EW-1 where soil vapor extraction (SVE) system is no longer operating.
10. NA = Groundwater extraction system no longer operating.
11. U = not detected above quantitation limit
12. J = concentration is estimated
13. J+ = concentration is estimated, potentially biased high
14. J- = concentration is estimated, potentially biased low

Prepared by VMW 07/14/2025
Checked by KJM 07/31/2025

APPENDIX A

SEWER LINE DISCONNECTION SUMMARY LETTER

Groundwater & Environmental Services, Inc.

495 Aero Drive, Suite 3
Cheektowaga, NY 14225

T. 800.287.7857

November 21, 2022

Charles Gregory
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway - 12th Floor
Albany, New York 12233-7017

Re: Sewer Line Disconnection Summary
Carriage Cleaners
2101 Monroe Avenue
Brighton, New York 14618
NYSDEC Site #828120
Offsite Property: 2113 Monroe Avenue, Brighton, New York

Dear Mr. Gregory:

Please find herein the summary of the sewer disconnection activities, with regard to Monroe County Sewer Use Permit #951 (the permit), conducted by Groundwater & Environmental Services, Inc. (GES). The work was completed on behalf of the New York State Department of Environmental Conservation (NYSDEC) at the above referenced property (hereto referenced as "the Site") in Brighton, New York.

On October 5, 2022, NYSDEC determined that the permit associated with the groundwater extraction treatment (GWET) system at the Site would not be renewed due to the GWET system being inactive. As such, it was required by Monroe County that the discharge line to the sewer be disconnected. On October 7, 2022, following a meeting with NYSDEC and the engineers at Wood, PLC (Wood), GES communicated the disconnection plans with a Monroe County Department of Environmental Services (MCDES) representative to propose the disconnection of the sewer discharge line by removing the plumbing from the air stripper to the furnco where the connection was made to the sewer pipe. Following plumbing and furnco removal, it was proposed to glue a PVC cap to close the tie in to the sewer. The MCDES representative agreed to this plan on October 11, 2022. On October 17, 2022, GES personnel performed the sewer disconnect activities in accordance with the activities as proposed above, and MCDES was notified that the disconnection activities were complete.

The permit expired on October 31, 2022. An MCDES representative met GES at the Site to inspect and verify the disconnection from the sewer on November 17, 2022. MCDES personnel had no concerns regarding the disconnection during this meeting.

Photographs of the line before and after the disconnection as well as the MCDES Permit Closure letter, dated November 18, 2022, are attached.

If you have any questions or concerns, please contact GES at 1-800-287-7857.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Nicole Lindner	Thomas Palmer
Case Manager	Sr. Project Manager

Attachments

Sewer Line Disconnection Summary Photograph Documentation

MCDES Permit Closeout for IWC-951

Attachments

View of sewer line following disconnect of furnco from system and sewer piping.

View of capped sewer line.

Department of Environmental Services

Monroe County, New York

Adam J. Bello
County Executive

Michael J. Garland, P.E.
Director

11/18/2022

Charles Gregory
NYS DEC
625 Broadway, 12th Floor
Albany, NY 12233-7017

Re: Permit Closeout for permit IWC-951

Dear Mr. Gregory:

The groundwater remediation system located at 2101 Monroe Avenue, Rochester, NY 14618 (Carriage Cleaners) discharged treated groundwater to the sanitary sewer under Monroe County Sewer Use Permit #951, which expired on October 31, 2022.

The Monroe County Office of Industrial Waste was notified by GES Inc. in 2020 that the groundwater treatment system was taken offline. There has been no discharge from the system since September of 2020.

Monroe County's Office of Industrial Waste performed a close-out inspection of the site on November 17, 2022. During the inspection it was verified the groundwater treatment system has been disconnected from the sanitary sewer. The treatment system is still present, but it has been disconnected from the discharge point by removing a length of pipe and gluing a PVC cap on the discharge pipe.

If the system is going to be restarted a new sewer use permit will be required prior to re-connecting the system to the sanitary sewer. Please contact this office a minimum of 30 days prior to reconnecting to allow time to process the permit.

Sewer use permit IWC-951 was not renewed and it expired on October 31, 2022. No further action is required regarding the closure of this permit. Please notify this office if the groundwater treatment system is removed from the site.

If you have any questions or concerns, please call me at (585) 753-5441.

Sincerely,

Donald Wolf
Industrial Waste Engineer

Cc: Nicole Lindner, GES Inc.
xc: file

APPENDIX B

MONTHLY SVE DATA (JULY 2022 THROUGH JANUARY 2024)

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
12/27/2011	1650.60		1658.6	
1/4/2012	1843.9	193.30	1852.0	193.40
1/11/2012	2011.5	167.60	2019.5	167.50
1/18/2012	2170.6	159.10	2184.8	165.30
1/25/2012	2343.8	173.20	2358.0	173.20
2/1/2012	2510.9	167.10	2525.1	167.10
Total for January 2012		860.30		866.50
% Run Time for January 2012		99.3%		100%
2/9/2012	2705.2	194.30	2719.3	194.20
2/14/2012	2820.8	115.60	2835.0	115.70
2/23/2012	3036.6	215.80	3051.0	216.00
2/29/2012	3186.2	149.60	3191.6	140.60
Total for February 2012		675.30		666.50
% Run Time for February 2012		100%		99.2%
3/7/2012	3351.4	165.20	3206.5	14.90
3/14/2012	3519.3	167.90	3373.1	166.60
3/22/2012	3710.7	191.40	3563.5	190.40
3/27/2012	3825.9	115.20	3679.0	115.50
Total for March 2012		639.70		487.40
% Run Time for March 2012		98.7%		75.2%
4/3/2012	3993.7	167.80	3846.7	167.70
4/11/2012	4184.7	191.00	4037.3	190.60
4/17/2012	4330.5	145.80	4184.6	147.30
4/24/2012	4495.2	164.70	4274.0	89.40
Total for April 2012		669.30		595.00
% Run Time for April 2012		99.6%		88.5%
5/2/2012	4687.2	192.00	4464.6	190.60
5/9/2012	4856.7	169.50	4628.9	164.30
5/16/2012	5021.9	165.20	4792.8	163.90
5/22/2012	5169.4	147.50	4898.1	105.30
5/29/2012	5334.8	165.40	5064.6	166.50
Total for May 2012		839.60		790.60
% Run Time for May 2012		100.0%		94.1%
6/6/2012	5524.8	190.00	5130.1	65.50
6/13/2012	5690.1	165.30	5295.5	165.40
6/20/2012	5858.9	168.80	5461.9	166.40
6/26/2012	6002	143.10	5605.0	143.10
Total for June 2012		667.20		540.40
% Run Time for June 2012		99.3%		80.4%
7/5/2012	6218.7	216.70	5781.2	176.20
7/12/2012	6387.2	168.50	5949.7	168.50
7/18/2012	6530.1	142.90	6080.1	130.40
7/26/2012	6722.1	192.00	6271.1	191.00
7/31/2012	6839.5	117.40	6388.5	117.40
Total for July 2012		837.50		783.50
% Run Time for July 2012		99.7%		93.3%
8/8/2012	7030.1	190.60	6579.1	190.60
8/16/2012	7221.5	191.40	6770.5	191.40
8/21/2012	7341.5	120.00	6890.5	120.00
8/30/2012	7554.4	212.90	7103.4	212.90
Total for August 2012		714.90		714.90
% Run Time for August 2012		99.3%		99.3%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower		Air Stripper Blower	
	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)
9/6/2012	7721.0	166.60	7270.0	166.60
9/12/2012	7863.5	142.50	7412.6	142.60
9/20/2012	8053.8	190.30	7602.9	190.30
9/27/2012	8222.4	168.60	7770	167.10
Total for September 2012		668.00		666.60
% Run Time for September 2012		99.4%		99.2%
10/4/2012	8390.6	168.20	7937.5	167.50
10/11/2012	8558.1	167.50	8104.9	167.40
10/18/2012	8725.6	167.50	8272.3	167.40
10/25/2012	8890.2	164.60	8436.9	164.60
Total for October 2012		667.80		666.90
% Run Time for October 2012		99.4%		99.2%
11/2/2012	9083.1	192.90	8625.7	188.80
11/7/2012	9202.8	119.70	8745.7	120.00
11/16/2012	9419.2	216.40	8961.2	215.50
11/21/2012	9537.6	118.40	9079.7	118.50
11/30/2012	9750.2	212.60	9292.2	212.50
Total for November 2012		860.00		855.30
% Run Time for November 2012		99.5%		99.0%
12/7/2012	9922	171.80	9411.2	119.00
12/13/2012	10061.6	139.60	9550.6	139.40
12/21/2012	10252.8	191.20	9740.7	190.10
12/27/2012	10397.1	144.30	9885	144.30
Total for December 2012		646.90		592.80
% Run Time for December 2012		99.8%		91.5%
1/2/2013	10539	141.90	10026.9	141.90
1/9/2013	10706	167.00	10194	167.10
1/16/2013	10875.1	169.10	10362	168.00
1/24/2013	11066.1	191.00	10552.1	190.10
1/31/2013	11234.4	168.30	10720.4	168.30
Total for January 2012		837.30		835.40
% Run Time for January 2012		99.7%		99.5%
2/7/2013	11397.8	163.40	10883.5	163.10
2/15/2013	11590.4	192.60	11075.3	191.80
2/20/2013	11709.5	119.10	11194.4	119.10
2/27/2013	11877.4	167.90	11362.3	167.90
Total for February 2013		643.00		641.90
% Run Time for February 2013		99.2%		99.1%
3/7/2013	12068.8	191.40	11553.7	191.40
3/14/2013	12233.8	165.00	11717.6	163.90
3/20/2013	12380.1	146.30	11864	146.40
3/27/2013	12544.9	164.80	12028.8	164.80
Total for March 2013		667.50		666.50
% Run Time for March 2013		99.3%		99.2%
4/2/2013	12688.9	144.00	12172.6	143.80
4/11/2013	12902.9	214.00	12386.2	213.60
4/16/2013	13026.4	123.50	12509.6	123.40
4/23/2013	13189.1	162.70	12672.3	162.70
Total for April 2013		644.20		643.50
% Run Time for April 2013		99.4%		99.3%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower		Air Stripper Blower	
	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)
5/1/2013	13378.9	189.80	12862.2	189.90
5/8/2013	13547.9	169.00	13030	167.80
5/14/2013	13694.5	146.60	13175.6	145.60
5/21/2013	13859.2	164.70	13340.3	164.70
5/29/2013	14051	191.80	13532.1	191.80
Total for May 2013		861.90		859.80
% Run Time for May 2013		99.8%		99.5%
6/4/2013	14195.2	144.20	13676.2	144.10
6/11/2013	14360.7	165.50	13841.7	165.50
6/19/2013	14553.6	192.90	14032.3	190.60
6/25/2013	14701.6	148.00	14179.7	147.40
Total for June 2013		650.60		647.60
% Run Time for June 2013		100%		99.9%
7/2/2013	14861.7	160.10	14339.8	160.10
7/9/2013	15031.8	170.10	14508.8	169.00
7/18/2013	15248.6	216.80	14725.6	216.80
7/25/2013	15413.9	165.30	14890.8	165.20
7/30/2013	15532.5	118.60	15009.5	118.70
Total for July 2013		830.90		829.80
% Run Time for July 2013		98.9%		98.8%
8/6/2013	15700.9	168.40	15177.9	168.40
8/13/2013	15865.5	164.60	15342.5	164.60
8/20/2013	16031.8	166.30	15508.8	166.30
8/27/2013	16200.8	169.00	15677.8	169.00
Total for August 2013		668.30		668.30
% Run Time for August 2013		99.4%		99.4%
9/4/2013	16390	189.20	15867	189.20
9/11/2013	16556.6	166.60	16033.5	166.50
9/19/2013	16752.1	195.50	16227.6	194.10
9/25/2013	16898.8	146.70	16373.8	146.20
Total for September 2013		698.00		696.00
% Run Time for September 2013		100%		100.0%
10/3/2013	17086.5	187.70	16560.5	186.70
10/8/2013	17206.6	120.10	16680.6	120.10
10/17/2013	17421.6	215.00	16894.7	214.10
10/22/2013	17538.2	116.60	17010.5	115.80
10/29/2013	17705.8	167.60	17177.1	166.60
Total for October 2013		807.00		803.30
% Run Time for October 2013		98.9%		98.4%
11/1/2013	17906.9	201.10	17317.7	140.60
11/12/2013	18027.6	120.70	17437.2	119.50
11/19/2013	18196.6	169.00	17606.2	169.00
11/26/2013	18360.4	163.80	17770	163.80
Total for November 2013		654.60		592.90
% Run Time for November 2013		97.4%		88.2%
12/4/2013	18551.2	190.80	17960.8	190.80
12/12/2013	18743.1	191.90	18152.3	191.50
12/17/2013	18861.8	118.70	18270.8	118.50
12/23/2013	19005.1	143.30	18414	143.20
12/30/2013	19172.7	167.60	18580.7	166.70
Total for December 2013		812.30		810.70
% Run Time for December 2013		99.5%		99.4%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower		Air Stripper Blower	
	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)
1/6/2014	19343.2	170.50	18750.3	169.60
1/16/2014	19580.7	237.50	18986.4	236.10
1/23/2014	19748.2	167.50	19153.1	166.70
1/31/2014	19938.7	190.50	19153.3	0.20
Total for January 2014		766.00		572.60
% Run Time for January 2014		99.7%		74.6%
2/6/2014	20086.4	147.70	19154.0	0.70
2/14/2014	20274.7	188.30	19342.2	188.20
2/18/2014	20371.1	96.40	19438.5	96.30
2/25/2014	20538.6	167.50	19603.4	164.90
Total for February 2014		599.90		450.10
% Run Time for February 2014		100.0%		75.0%
3/4/2014	20706.7	168.10	19770.1	166.70
3/11/2014	20871.7	165.00	19935.1	165.00
3/19/2014	21064.2	192.50	20127.6	192.50
3/25/2014	21208.2	144.00	20271.6	144.00
Total for March 2014		669.60		668.20
% Run Time for March 2014		99.6%		99.4%
4/1/2014	21374.4	166.20	20437.7	166.10
4/10/2014	21587.5	213.10	20650.9	213.20
4/15/2014	21704.8	117.30	20768.1	117.20
4/22/2014	21874.9	170.10	20937.5	169.40
4/29/2014	22039.8	164.90	21102.4	164.90
Total for April 2014		831.60		830.80
% Run Time for April 2014		99.0%		98.9%
5/7/2014	22235.8	196.00	21297.8	195.40
5/14/2014	22402	166.20	21461.4	163.60
5/22/2014	22406.6	4.60	21627.4	166.00
5/27/2014	22406.6	0.00	21748	120.60
Total for May 2014		366.80		645.60
% Run Time for May 2014		54.6%		96.1%
6/4/2014	22406.6	0.00	21935.1	187.10
6/12/2014	22406.9	0.30	22128.7	193.60
6/17/2014	22522.6	115.70	22244	115.30
6/24/2014	22695.1	172.50	22415.4	171.40
Total for June 2014		288.50		667.40
% Run Time for June 2014		42.9%		99.3%
7/3/2014	22905.2	210.10	22625.5	210.10
7/8/2014	23025.5	120.30	22745.2	119.70
7/16/2014	23218.2	192.70	22937.9	192.70
7/23/2014	23388.5	170.30	23107	169.10
7/29/2014	23529.1	140.60	23246.4	139.40
Total for July 2014		834.00		831.00
% Run Time for July 2014		99.3%		98.9%
8/5/2014	23698.2	169.10	23415.5	169.10
8/12/2014	23865.4	167.20	23582.7	167.20
8/19/2014	24028.8	163.40	23746.1	163.40
8/27/2014	24220.2	191.40	23937.5	191.40
Total for August 2014		691.10		691.10
% Run Time for August 2014		99.3%		99.3%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
9/4/2014	24416.5	196.30	24133.4	195.90
9/9/2014	24531.8	115.30	24248.7	115.30
9/16/2014	24699.5	167.70	24416.3	167.60
9/25/2014	24911.4	211.90	24627.2	210.90
Total for September 2014		691.20		689.70
% Run Time for September 2014		99.3%		99.1%
10/2/2014	25082.7	171.30	24797.7	170.50
10/9/2014	25246.7	164.00	24960.9	163.20
10/14/2014	25366.7	120.00	25080.4	119.50
10/20/2014	25512.7	146.00	25154.1	73.70
10/30/2014	25735.5	222.80	25394.8	240.70
Total for October 2014		824.10		767.60
% Run Time for October 2014		98.1%		91.4%
11/5/2014	25894.9	159.40	25536.3	141.50
11/13/2014	26085.9	191.00	25726.3	190.00
11/17/2014	26185.4	99.50	25824.3	98.00
11/24/2014	26313.3	127.90	25989.3	165.00
Total for November 2014		577.80		594.50
% Run Time for November 2014		96.3%		99.1%
12/5/2014	26314.3	1.00	26252.8	263.50
12/12/2014	26314.3	0.00	26419.1	166.30
12/23/2014	26314.3	0.00	26680	260.90
12/30/2014	26314.3	0.00	26846.5	166.50
Total for December 2014		1.00		857.20
% Run Time for December 2014		0.1%		99.2%
1/8/2015	26314.3	0.00	27065.2	218.70
1/15/2015	26314.3	0.00	27231.4	166.20
1/22/2015	26360.4	46.10	27398.5	167.10
1/27/2015	26479.6	119.20	27516.4	117.90
Total for January 2015		165.30		669.90
% Run Time for January 2015		24.6%		99.7%
2/3/2015	26646.7	167.10	27682	165.60
2/10/2015	26814.7	168.00	27849.5	167.50
2/17/2015	26981.9	167.20	28016.6	167.10
2/26/2015	27198.7	216.80	28232.1	215.50
Total for February 2015		719.10		715.70
% Run Time for February 2015		99.9%		99.4%
3/5/2014	27368.9	170.20	28402.1	170.00
3/11/2015	27511.6	142.70	28544.8	142.70
3/18/2015	27610.8	99.20	28710.1	165.30
3/24/2015	27710.9	100.10	28850	139.90
3/31/2015	27879.6	168.70	29018.6	168.60
Total for March 2015		680.90		786.50
% Run Time for March 2015		87.0%		99.3%
4/7/2015	28043.9	164.30	29183.6	165.00
4/16/2015	28258.9	215.00	29398.6	215.00
4/21/2015	28378.1	119.20	29517.1	118.50
4/28/2015	28543.4	165.30	29682.2	165.10
Total for April 2015		663.80		663.60
% Run Time for April 2015		98.8%		98.8%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
5/8/2015	28782.1	238.70	29915.1	232.90
5/12/2015	28877	94.90	30008.7	93.60
5/19/2015	29044.8	167.80	30173.2	164.50
5/26/2015	29213	168.20	30340.4	167.20
Total for May 2015		669.60		658.20
% Run Time for May 2015		99.6%		97.9%
6/2/2015	29380.7	167.70	30507.1	166.70
6/9/2015	29548.3	167.60	30673.2	166.10
6/16/2015	29693.3	145.00	30841.4	168.20
6/23/2015	29861.7	168.40	31007.3	165.90
6/30/2015	30028.7	167.00	31172.9	165.60
Total for June 2015		815.70		832.50
% Run Time for June 2015		97.1%		99.1%
7/7/2015	30199.5	170.80	31341.6	168.70
7/14/2015	30368.4	168.90	31510.4	168.80
7/24/2015	30605.6	237.20	31747.6	237.20
7/28/2015	30703	97.40	31843.8	96.20
Total for July 2015		674.30		670.90
% Run Time for July 2015		100.3%		99.8%
8/6/2015	30916	213.00	32056.7	212.90
8/13/2015	31086	170.00	32222	165.30
8/20/2015	31249	163.00	32387.8	165.80
8/25/2015	31372	123.00	32487.1	99.30
Total for August 2015		669.00		643.30
% Run Time for August 2015		99.6%		95.7%
9/2/2015	31560.8	188.80	32675.6	188.50
9/11/2015	31777.9	217.10	32890.4	214.80
9/15/2015	31871.9	94.00	32983	92.60
9/22/2015	32044	172.10	33153	170.00
9/29/2015	32210.7	166.70	33319.3	166.30
Total for September 2015		838.70		832.20
% Run Time for September 2015		99.8%		99.1%
10/8/2015	32424	213.30	33531.8	212.50
10/13/2015	32544.5	120.50	33651.4	119.60
10/20/2015	32713.9	169.40	33819.5	168.10
10/27/2015	32883.9	170.00	33988.2	168.70
Total for October 2015		673.20		668.90
% Run Time for October 2015		100.2%		99.5%
11/5/2015	33099	215.10	34203.3	215.10
11/12/2015	33267.3	168.30	34370.8	167.50
11/17/2015	33385.3	118.00	34487.2	116.40
11/25/2015	33579.2	193.90	34679.1	191.90
Total for November 2015		695.30		690.90
% Run Time for November 2015		99.9%		99.3%
12/3/2015	33769.2	190.00	34868.2	189.10
12/10/2015	33939.6	170.40	35036.1	167.90
12/16/2015	34080.5	140.90	35176	139.90
12/22/2015	34225.2	144.70	35319.4	143.40
12/31/2015	34439.4	214.20	35531.6	212.20
Total for December 2015		860.20		852.50
% Run Time for December 2015		99.6%		98.7%
1/6/2016	34584.5	145.10	35676.8	145.20
1/13/2016	34754	169.50	35843.2	166.40
1/21/2016	34947.2	193.20	36034.4	191.20
1/27/2016	35092.8	145.60	36179.4	145.00
Total for January 2016		653.40		647.80
% Run Time for January 2016		100.8%		100.0%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
2/3/2016	35260.1	167.30	36327.7	148.30
2/11/2016	35448.9	188.80	36515.5	187.80
2/17/2016	35594.9	146.00	36660.6	145.10
2/25/2016	35787.5	192.60	36852.4	191.80
Total for February 2016		694.70		673.00
% Run Time for February 2016		99.8%		96.7%
3/2/2016	35928.8	141.30	36992.9	140.50
3/9/2016	36096.6	167.80	37159.6	166.70
3/17/2016	36287.6	191.00	37350.5	190.90
3/23/2016	36432.8	145.20	37494.7	144.20
3/31/2016	36623.6	190.80	37683.9	189.20
Total for March 2016		836.10		831.50
% Run Time for March 2016		99.5%		99.0%
4/6/2016	36770.9	147.30	37827.7	143.80
4/13/2016	36935.2	164.30	37941.3	113.60
4/21/2016	37130.5	195.30	38185.7	244.40
4/27/2016	37274.7	144.20	38328.7	143.00
Total for April 2016		651.10		644.80
% Run Time for April 2016		100.5%		99.5%
5/4/2016	37441.7	167.00	38494.8	166.10
5/11/2016	37608.8	167.10	38660.5	165.70
5/18/2016	37775.4	166.60	38826.3	165.80
5/25/2016	37943.3	167.90	38982.9	156.60
Total for May 2016		668.60		654.20
% Run Time for May 2016		99.5%		97.4%
6/2/2016	38138	194.70	39185.6	202.70
6/8/2016	38279.5	141.50	39326	140.40
6/15/2016	38448.4	168.90	39493.7	167.70
6/22/2016	38618.6	170.20	39662	168.30
6/29/2016	38782.5	163.90	39825.1	163.10
Total for June 2016		839.20		842.20
% Run Time for June 2016		99.9%		100.3%
7/7/2016	38942.7	160.20	39984.5	159.40
7/11/2016	38943.6	0.90	39985.5	1.00
7/14/2016	38978.5	34.90	40020.4	34.90
7/21/2016	39142.2	163.70	40184.1	163.70
7/27/2016	39287	144.80	40328.9	144.80
Total for July 2016		504.50		503.80
% Run Time for July 2016		75.1%		75.0%
8/4/2016	39480	193.00	40520.2	191.30
8/10/2016	39621.9	141.90	40661.1	140.90
8/17/2016	39789	167.10	40828.1	167.00
8/25/2016	39979.4	190.40	41018.6	190.50
8/31/2016	40125.4	146.00	41164	145.40
Total for August 2016		838.40		835.10
% Run Time for August 2016		88.8%		88.6%
9/8/2016	40316.5	191.10	41355	191.00
9/14/2016	40457.9	141.40	41495.3	140.30
9/21/2016	40627.7	169.80	41664.1	168.80
9/28/2016	40793.9	166.20	41830.3	166.20
Total for September 2016		668.50		666.30
% Run Time for September 2016		99.5%		99.2%
10/5/2016	40958.7	164.80	41995	164.70
10/12/2016	41125.9	167.20	42162.3	167.30
10/20/2016	41317.8	191.90	42352.1	189.80
10/28/2016	41514	196.20	42546.9	194.80
Total for October 2016		720.10		716.60

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
% Run Time for October 2016		100.0%		99.5%
11/3/2016	41654.9	140.90	42686.6	139.70
11/9/2016	41798.3	143.40	42828.5	141.90
11/18/2016	42016.1	217.80	43046.3	217.80
11/22/2016	42110.7	94.60	43139.8	93.50
11/30/2016	42304.5	193.80	43332.5	192.70
Total for November 2016		790.50		785.60
% Run Time for November 2016		99.8%		99.2%
12/7/2016	42469.5	165.00	43496.3	163.80
12/16/2016	42683.5	214.00	43710.7	214.40
12/21/2016	42803	119.50	43827.9	117.20
12/29/2016	42996.3	193.30	44021.2	193.30
Total for December 2016		691.80		688.70
% Run Time for December 2016		99.4%		99.0%
1/5/2017	43164.3	168.00	44188.2	167.00
1/11/2017	43307	142.70	44329.3	141.10
1/18/2017	43475.2	168.20	44496.5	167.20
1/25/2017	43644.2	169.00	44663.1	166.60
Total for January 2017		647.90		641.90
% Run Time for January 2017		100.0%		99.1%
2/1/2017	43812.1	167.90	44828.9	165.80
2/8/2017	43979.9	167.80	44994.9	166.00
2/16/2017	44171.8	191.90	45184.6	189.70
2/22/2017	44316.7	144.90	45327.5	142.90
Total for February 2017		672.50		664.40
% Run Time for February 2017		100.1%		98.9%
3/2/2017	44510.3	193.60	45520	192.50
3/9/2017	44677.9	167.60	45687.9	167.90
3/13/2017	44769	91.10	45755.4	67.50
3/15/2017	44813.8	44.80	45800.2	44.80
3/22/2017	44985.3	171.50	45971.7	171.50
3/30/2017	45172.9	187.60	46159	187.30
Total for March 2017		856.20		831.50
% Run Time for March 2017		99.1%		96.2%
4/5/2017	45317.3	144.40	46301.4	142.40
4/12/2017	45484.5	167.20	46467.4	166.00
4/20/2017	45676.2	191.70	46658	190.60
4/27/2017	45845.2	169.00	46826.2	168.20
Total for April 2017		672.30		667.20
% Run Time for April 2017		100.0%		99.3%
5/3/2017	45990.3	145.10	46969.7	143.50
5/10/2017	46155.8	165.50	47133.8	164.10
5/17/2017	46323.1	167.30	47299.5	165.70
5/24/2017	46490	166.90	47463.6	164.10
Total for May 2017		644.80		637.40
% Run Time for May 2017		99.5%		98.4%
6/2/2017	46704.8	214.80	47678.3	214.70
6/7/2017	46825.9	121.10	47799.4	121.10
6/13/2017	46968.7	142.80	47940.5	141.10
6/21/2017	47159.3	190.60	48131.1	190.60
6/28/2017	47328.2	168.90	48298.2	167.10
Total for June 2017		838.20		834.60
% Run Time for June 2017		99.8%		99.4%
7/6/2017	47516.9	188.70	48485	186.80
7/11/2017	47636.8	119.90	48604.8	119.80
7/19/2017	47829.2	192.40	48797.3	192.50
7/26/2017	47994	164.80	48962.2	164.90

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
Total for July 2017		665.80		664.00
% Run Time for July 2017		99.1%		98.8%
8/1/2017	48134.9	140.90	49103.1	140.90
8/9/2017	48327.3	192.40	49295.4	192.30
8/16/2017	48494.5	167.20	49462.6	167.20
8/23/2017	48664.7	170.20	49630.5	167.90
8/30/2017	48830.9	166.20	49795.7	165.20
Total for August 2017		836.90		833.50
% Run Time for August 2017		99.5%		99.2%
9/6/2017	48996	165.10	49958.8	163.10
9/14/2017	49185.4	189.40	50148.2	189.40
9/20/2017	49331.4	146.00	50294.2	146.00
9/27/2017	49497.3	165.90	50460	165.80
Total for September 2017		666.40		664.30
% Run Time for September 2017		99.4%		98.9%
10/4/2017	49666.4	169.10	50629.1	169.10
10/13/2017	49876.6	210.20	50838.2	209.10
10/18/2017	49994.9	118.30	50956.5	118.30
10/25/2017	50165.7	170.80	51127.2	170.70
Total for October 2017		668.40		667.20
% Run Time for October 2017		99.3%		99.3%
11/1/2017	50334.6	168.90	51294.3	167.10
11/8/2017	50501.9	167.30	51460.6	166.30
11/15/2017	50668.9	167.00	51626.3	165.70
11/22/2017	50836.1	167.20	51791.4	165.10
11/30/2017	51028.2	192.10	51983.5	192.10
Total for November 2017		862.50		856.30
% Run Time for November 2017		99.7%		99.1%
12/5/2017	51145.1	116.90	52100.4	116.90
12/13/2017	51338.3	193.20	52293.6	193.20
12/20/2017	51503.8	165.50	52456.6	163.00
12/28/2017			52649.8	193.20
Total for December 2017		475.60		666.30
% Run Time for December 2017		70.8%		99.2%
1/4/2018			52815.6	165.80
1/10/2018			52959.3	143.70
1/17/2018			53121.5	162.20
1/24/2018			53290.6	169.10
1/31/2018			53457	166.40
Total for January 2018		0.00		807.20
% Run Time for January 2018		0.0%		98.9%
2/7/2018			53621.3	164.30
2/14/2018			53793.1	171.80
2/21/2018			53956.1	163.00
2/28/2018			54124.6	168.50
Total for February 2018		0.00		667.60
% Run Time for February 2018		0.0%		99.3%
3/7/2018			54287.1	162.50
3/14/2018			54451.5	164.40
3/21/2018			54618.4	166.90
3/28/2018			54785.3	166.90
Total for March 2018		0.00		660.70
% Run Time for March 2018		0.0%		98.3%
4/6/2018			54949	163.70
4/12/2018			55117.9	168.90
4/19/2018			55285.2	167.30

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
4/26/2018			55451.7	166.50
Total for April 2018		0.00		666.40
% Run Time for April 2018		0.0%		95.7%
5/2/2018			55617.7	166.00
5/9/2018			55781.5	163.80
5/16/2018			55945.4	163.90
5/23/2018			56114.3	168.90
5/30/2018			56281	166.70
Total for May 2018		0.00		829.30
% Run Time for May 2018		0.0%		101.6%
6/6/2018			56445	164.00
6/13/2018			56611	166.00
6/20/2018			56776	165.00
6/27/2018			56942.4	166.40
Total for June 2018		0.00		661.40
% Run Time for June 2018		0.0%		98.4%
7/3/2018			57081.3	138.90
7/11/2018			57277.3	196.00
7/18/2018			57442.2	164.90
7/24/2018			57580.4	138.20
Total for July 2018		0.00		638.00
% Run Time for July 2018		0.0%		98.5%
8/1/2018			57746.4	166.00
8/6/2018			57863.1	116.70
8/23/2018			58268.1	405.00
8/29/2018			58409.1	141.00
Total for August 2018		0.00		828.70
% Run Time for August 2018		0.0%		95.9%
9/4/2018			58551.5	142.40
9/12/2018			58742.7	191.20
9/20/2018			58927.7	185.00
9/26/2018			59072.1	144.40
Total for September 2018		0.00		663.00
% Run Time for September 2018		0.0%		98.7%
10/3/2018			59236.6	164.50
10/10/2018			59404.2	167.60
10/17/2018			59567.7	163.50
10/24/2018			59732.2	164.50
10/31/2018			59897.3	165.10
Total for October 2018		0.00		825.20
% Run Time for October 2018		0.0%		98.2%
11/7/2018			60062.9	826.30
11/14/2018			60230.7	167.80
11/21/2018	51505.9	2.10	60394.8	164.10
11/28/2018	51674.8	168.90	60562	167.20
Total for November 2018		171.00		1325.40
% Run Time for November 2018		100.5%		98.9%
12/5/2018	51843.2	168.40	60729.3	167.30
12/12/2018	52008.8	165.60	60893.6	164.30
12/18/2018	52154.8	146.00	61036.2	142.60
12/28/2018	52396.1	241.30	61276.3	240.10
Total for December 2018		721.30		714.30
% Run Time for December 2018		100.2%		99.2%
1/2/2019	52514.3	118.20	61393.0	116.70
1/9/2019	52682.4	168.10	61560.1	167.10
1/16/2019	52851.3	168.90	61728.7	168.60
1/23/2019	53020.0	168.70	61896.4	167.70

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
1/30/2019	53184.2	164.20	62059.8	163.40
Total for January 2019		788.10		783.50
% Run Time for January 2019		99.5%		98.9%
2/6/2019	53354.4	170.20	62229.7	169.90
2/13/2019	53521.5	167.10	62395.6	165.90
2/20/2019	53688.3	166.80	62561	165.40
2/27/2019	53856.9	168.60	62728.3	167.30
Total for February 2019		672.70		668.50
% Run Time for February 2019		100.1%		99.5%
3/6/2019	54024.1	167.20	62894.0	165.70
3/13/2019	54192.6	168.50	63060.4	166.40
3/21/2019	54383.8	191.20	63251.2	190.80
3/27/2019	54527.3	143.50	63394.4	143.20
Total for March 2019		670.40		666.10
% Run Time for March 2019		99.8%		99.1%
4/3/2019	54694.8	167.50	63560.0	165.60
4/10/2019	54864.5	169.70	63728.0	168.00
4/17/2019	55030.7	166.20	63892.3	164.30
4/24/2019	55198.7	168.00	64058.6	166.30
Total for April 2019		671.40		664.20
% Run Time for April 2019		99.9%		98.8%
5/1/2019	55368.3	169.60	64228.0	169.40
5/9/2019	55562.7	194.40	64420.5	192.50
5/15/2019	55702.2	139.50	64559.7	139.20
5/22/2019	55772.6	70.40	64727.5	167.80
5/29/2019	55942.4	169.80	64894.4	166.90
Total for May 2019		743.70		835.80
% Run Time for May 2019		88.5%		99.5%
6/5/2019	56108.5	166.10	65060.5	166.10
6/12/2019	56274.4	165.90	65226.4	165.90
6/19/2019	56445.3	170.90	65395.2	168.80
6/25/2019	56587.7	142.40	65537.6	142.40
Total for June 2019		645.30		643.20
% Run Time for June 2019		99.6%		99.3%
7/2/2019	56752.3	164.60	65701.6	164.00
7/10/2019	56944.8	192.50	65894.0	192.40
7/18/2019	57133.5	188.70	66082.4	188.40
7/24/2019	57277.3	143.80	66225.2	142.80
7/31/2019	57444.6	167.30	66392.5	167.30
Total for July 2019		856.90		854.90
% Run Time for July 2019		99.2%		98.9%
8/7/2019	57611.5	166.90	66559.3	166.80
8/15/2019	57805.4	193.90	66753.2	193.90
8/21/2019	57945.4	140.00	66893.3	140.10
8/28/2019	58113.6	168.20	67061.8	168.50
Total for August 2019		669.00		669.30
% Run Time for August 2019		99.6%		99.6%
9/4/2019	58278.8	165.20	67226.1	164.30
9/11/2019	58448.5	169.70	67396.5	170.40
9/18/2019	58615.3	166.80	67563.5	167.00
9/25/2019	58779.2	163.90	67727	163.50
Total for September 2019		665.60		665.20
% Run Time for September 2019		99.0%		99.0%
10/2/2019	58947	167.80	67894.9	167.90
10/9/2019	59115.2	168.20	68063.0	168.10
10/15/2019	59257.3	142.10	68205.2	142.20
10/23/2019	59449.8	192.50	68396.4	191.20

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
10/30/2019	59613.9	164.10	68560.1	163.70
Total for October 2019		834.70		833.10
% Run Time for October 2019		99.4%		99.2%
11/6/2019	59783.5	169.60	68730.1	170.00
11/13/2019	59950.4	166.90	68897.0	166.90
11/20/2019	60114.9	164.50	69062.3	165.30
11/26/2019	60254.1	139.20	69204.8	142.50
Total for November 2019		640.20		644.70
% Run Time for November 2019		98.8%		99.5%
12/4/2019	60445.6	191.50	69395.4	190.60
12/11/2019	60610.5	164.90	69560.3	164.90
12/18/2019	60777.5	167.00	69727.4	167.10
12/24/2019	60924.7	147.20	69871.8	144.40
Total for December 2019		670.60		667.00
% Run Time for December 2019		99.8%		99.3%
1/2/2020	61137.6	212.90	70084.7	212.90
1/8/2020	61281.8	144.20	70228.9	144.20
1/15/2020	61447.3	165.50	70394.4	165.50
1/22/2020	61612	164.70	70559.1	164.70
1/31/2020	61827.4	215.40	70772.2	213.10
Total for January 2020		902.70		900.40
% Run Time for January 2020		99.0%		98.7%
2/5/2020	61946.3	118.90	70891.1	118.90
2/12/2020	62111	164.70	71055.8	164.70
2/19/2020	62281.7	170.70	71224.4	168.60
2/26/2020	62445.7	164.00	71388.4	164.00
Total for February 2020		618.30		616.20
% Run Time for February 2020		99.1%		98.7%
3/4/2020	62613.4	167.70	71555.5	167.10
3/11/2020	62777.3	163.90	71719.4	163.90
3/18/2020	62970.4	193.10	71910.6	191.20
3/25/2020	63112.2	141.80	72052.4	141.80
Total for March 2020		666.50		664.00
% Run Time for March 2020		99.2%		98.8%
4/1/2020	63279	166.80	72217.9	165.50
4/8/2020	63448.5	169.50	72385.6	167.70
4/14/2020	63590.6	142.10	72527.7	142.10
4/22/2020	63782.6	192.00	72719.7	192.00
4/29/2020	63946.2	163.60	72883.9	164.20
Total for April 2020		834.00		831.50
% Run Time for April 2020		99.1%		98.8%
5/6/2020	64115.2	169.00	73052.9	169.00
5/14/2020	64305.4	190.20	73243.1	190.20
5/20/2020	64446.2	140.80	73383.0	139.90
5/29/2020	64573.6	127.4	73599.3	216.30
Total for May 2020		627.40		715.40
% Run Time for May 2020		87.1%		99.4%
6/3/2020	64694.8	121.20	73720.5	121.20
6/10/2020	64859.5	164.70	73884.7	164.20
6/17/2020	65026.2	166.70	74051.4	166.70
6/24/2020	65196.2	170.0	74219.0	167.60
Total for June 2020		622.60		619.70
% Run Time for June 2020		99.8%		99.3%
7/1/2020	65365	168.80	74386.3	167.30
7/8/2020	65527.9	162.90	74550.7	164.40
7/15/2020	65694.5	166.60	74717.3	166.60
7/21/2020	65838.4	143.90	74861.2	143.90

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
7/28/2020	66003.8	165.4	75026.5	165.30
Total for July 2020		807.60		807.50
% Run Time for July 2020		99.0%		99.0%
8/5/2020	66196.9	193.10	75219.7	193.20
8/11/2020	66335.6	138.70	75358.4	138.70
8/20/2020	66550.6	215.00	75573.9	215.50
8/26/2020	66693.9	143.3	75714.4	140.50
Total for August 2020		690.10		687.90
% Run Time for August 2020		99.2%		98.8%
9/2/2020	66860.7	166.80	75887.3	172.90
9/9/2020	67031.7	171.00	76052.3	165.00
9/16/2020	67196	164.30	System Off	0.00
9/30/2020	67531.8	335.8	System Off	0.00
Total for September 2020		837.90		337.90
% Run Time for September 2020		99.5%		100.6%
10/14/2020	67868.3	336.50	System Off	0.00
Total for October 2020		336.50		0.00
% Run Time for October 2020		100.0%		0.0%
11/11/2020	68544.1	675.80	System Off	0.00
Total for November 2020		675.80		0.00
% Run Time for November 2020		100.4%		0.0%
12/16/2020	69381.4	837.30	System Off	0.00
Total for December 2020		837.30		0.00
% Run Time for December 2020		100.1%		0.0%
1/15/2021	70104.7	723.30	System Off	0.00
Total for January 2021		723.30		0.00
% Run Time for January 2021		100.5%		0.0%
2/10/2021	70727.3	622.60	System Off	0.00
Total for February 2021		622.60		0.00
% Run Time for February 2021		99.8%		0.0%
3/16/2021	71208	480.70	System Off	0.00
Total for March 2021		480.70		0.00
% Run Time for March 2021		58.9%		0.0%
4/16/2021	71952.4	744.40	System Off	0.00
Total for April 2021		744.40		0.00
% Run Time for April 2021		100.1%		0.0%
5/17/2021	72696.6	744.20	System Off	0.00
Total for May 2021		744.20		0.00
% Run Time for May 2021		100.0%		0.0%
6/11/2021	73295.6	599.00	System Off	0.00
Total for June 2021		599.00		0.00
% Run Time for June 2021		99.9%		0.0%
7/22/2021	74281	985.40	System Off	0.00
Total for July 2021		985.40		0.00
% Run Time for July 2021		100.1%		0.0%
8/11/2021	74761.3	480.30	System Off	0.00
Total for August 2021		480.30		0.00
% Run Time for August 2021		100.1%		0.0%
9/14/2021	75539.3	778.00	System Off	0.00
Total for September 2021		778.00		0.00
% Run Time for September 2021		95.3%		0.0%
11/17/2021	77076.1	1536.80	System Off	0.00
Total for November 2021		1536.80		0.00
% Run Time for November 2021		100.1%		0.0%
4/28/2022	78075.8	999.70	System Off	0.00
Total for April 2022		999.70		0.00
% Run Time for April 2022		25.7%		0.0%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower		Air Stripper Blower	
	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)	TOTALIZED RUN TIME (HRS)	RUN TIME BETWEEN (HRS)
5/18/2022	78551.2	475.40	System Off	0.00
Total for May 2022		475.40		0.00
% Run Time for May 2022		99.0%		0.0%
6/17/2022	79270.9	719.70	System Off	0.00
Total for June 2022		719.70		0.00
% Run Time for June 2022		100.0%		0.0%
7/11/2022	79847	576.10	System Off	0.00
Total for July 2022		576.10		0.00
% Run Time for July 2022		100.0%		0.0%
8/15/2022	80686.8	839.80	System Off	0.00
Total for August 2022		839.80		0.00
% Run Time for August 2022		100.0%		0.0%
9/16/2022	81453.6	766.80	System Off	0.00
Total for September 2022		766.80		0.00
% Run Time for September 2022		99.8%		0.0%
10/17/2022	82199.5	745.90	System Off	0.00
Total for October 2022		745.90		0.00
% Run Time for October 2022		100.3%		0.0%
11/17/2022	82945.8	746.30	System Off	0.00
Total for November 2022		746.30		0.00
% Run Time for November 2022		100.3%		0.0%
12/21/2022	83760.5	814.70	System Off	0.00
Total for December 2022		814.70		0.00
% Run Time for December 2022		99.8%		0.0%
1/17/2023	84407.9	647.40	System Off	0.00
Total for January 2023		647.40		0.00
% Run Time for January 2023		99.9%		0.0%
2/17/2023	85150.9	743.00	System Off	0.00
Total for February 2023		743.00		0.00
% Run Time for February 2023		99.9%		0.0%
3/31/2023	86159.6	1008.70	System Off	0.00
Total for March 2023		1008.70		0.00
% Run Time for March 2023		100.1%		0.0%
4/14/2023	86495.1	335.50	System Off	0.00
Total for April 2023		335.50		0.00
% Run Time for April 2023		99.9%		0.0%
5/18/2023	87310.3	815.20	System Off	0.00
Total for May 2023		815.20		0.00
% Run Time for May 2023		99.9%		0.0%
6/17/2023	88003.6	693.30	System Off	0.00
Total for June 2023		693.30		0.00
% Run Time for June 2023		96.3%		0.0%
7/17/2023	88682.8	679.20	System Off	0.00
Total for July 2023		679.20		0.00
% Run Time for July 2023		94.3%		0.0%
8/18/2023	89451	768.20	System Off	0.00
Total for August 2023		768.20		0.00
% Run Time for August 2023		100.0%		0.0%
9/18/2023	90194.6	743.60	System Off	0.00
Total for September 2023		743.60		0.00
% Run Time for September 2023		99.9%		0.0%
10/20/2023	90961.4	766.80	System Off	0.00
Total for October 2023		766.80		0.00
% Run Time for October 2023		99.9%		0.0%
11/14/2023	91561.6	600.20	System Off	0.00
Total for November 2023		600.20		0.00
% Run Time for November 2023		99.9%		0.0%

Carriage Cleaners Run Time Log
Brighton, Monroe County, New York
January 2024

INSPECTION DATE (UNITS)	SVE Blower TOTALIZED RUN TIME (HRS)	SVE Blower RUN TIME BETWEEN (HRS)	Air Stripper Blower TOTALIZED RUN TIME (HRS)	Air Stripper Blower RUN TIME BETWEEN (HRS)
1/31/2024	93434.8	1873.20	System Off	0.00
Total for January 2024		1873.20		0.00
% Run Time for January 2024		100.0%		0.0%
% Run Time for 2012 / 2013 / 2014 / 2015 / 2016 / 2017 / 2018 / 2019 / 2020 / 2021/ 2022 / 2023 / 2024		**86.5%**		**97.5%**

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
7/1/2022								
7/8/2022								
7/11/2022	29847	System off	NA	0	0	System off	38.2	10.7
7/18/2022								
7/25/2022								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
7/1/2022								
7/8/2022								
7/11/2022	10.01	10.45	0.1	0	0	0.55	0.1	0.05
7/18/2022								
7/25/2022								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
7/1/2022							
7/8/2022							
7/11/2022	84	0.54	0.02	0	0	100	180
7/18/2022							
7/25/2022							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
7/1/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/8/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/11/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.4
7/18/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/25/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
7/1/2022			
7/8/2022			
7/11/2022	3	0.54	0.1
7/18/2022			
7/25/2022			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2022

Parameter / Method	Sample Location (Frequency / Turnaround Time)											
	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[5] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation / Portable Meter	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[5] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA 8260; C		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up / Calculation		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

	Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
7/11/2022	2, 4,5, 6, 8	0	6.81	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
7/11/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
7/11/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
7/11/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.290000	ND	0.31	Not Sampled	Not Sampled	0.210000	0.58479

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
8/5/2022								
8/12/2022								
8/15/2022	30686.8	System off	NA	0	0	System off	39.34	9.75
8/22/2022								
8/29/2022								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
8/5/2022								
8/12/2022								
8/15/2022	10.25	10.57	0.1	0	0	0.55	0.1	0.05
8/22/2022								
8/29/2022								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
8/5/2022							
8/12/2022							
8/15/2022	84	0.68	1.8	0	80	100	190
8/22/2022							
8/29/2022							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
8/5/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
8/12/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
8/15/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.7
8/22/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
8/29/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
8/5/2022			
8/12/2022			
8/15/2022	2	0.62	1
8/22/2022			
8/29/2022			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2022

Parameter / Method	Sample Location (Frequency / Turnaround Time)											
	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[5] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation / Portable Meter	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[5] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA 8260 Or		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up / Calculation		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

	Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
8/15/2022	2, 4,5, 6, 8	0	7.63	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
8/15/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
8/15/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
8/15/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.210000	ND	0.23	Not Sampled	Not Sampled	0.110000	0.126858

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

	Extraction Well		Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
9/6/2022								
9/13/2022								
9/16/2022	31453.6	System off	NA	0	0	System off	DRY	10.7
9/23/2022								
9/30/2022								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
9/6/2022								
9/13/2022								
9/16/2022	9.46	9.98	0.15	0	0	1	0.2	0.05
9/23/2022								
9/30/2022								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
9/6/2022							
9/13/2022							
9/16/2022	100	1.11	0.8	0	100+	100+	260
9/23/2022							
9/30/2022							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/6/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/13/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/16/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.2
9/23/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/30/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/6/2022			
9/13/2022			
9/16/2022	1	0.21	0.1
9/23/2022			
9/30/2022			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2022

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
9/16/2022	2, 4,5, 6, 8	2	6.87	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/16/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/16/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
9/16/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.190000	ND	0.21043	Not Sampled	Not Sampled	0.200000	0.21575

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
10/7/2022								
10/14/2022								
10/17/2022	32199.5	System off	NA	0	0	System off	39.35	10.75
10/24/2022								
10/31/2022								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
10/7/2022								
10/14/2022								
10/17/2022	9.64	10.14	0.5	0	0	0.55	0.05	0.05
10/24/2022								
10/31/2022								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
10/7/2022							
10/14/2022							
10/17/2022	88	0.61	1.6	0	100+	110	160
10/24/2022							
10/31/2022							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
10/7/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
10/14/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
10/17/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.1
10/24/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
10/31/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
10/7/2022			
10/14/2022			
10/17/2022	3	0.02	0.2
10/24/2022			
10/31/2022			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2022

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
10/17/2022	2, 4,5, 6, 8	2	7.03	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
10/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
10/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
10/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.130000	ND	0.16774	Not Sampled	Not Sampled	0.059000	0.09078

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
11/7/2022								
11/14/2022								
11/17/2022	32945.8	System off	NA	0	0	System off	38.37	10.12
11/24/2022								
12/1/2022								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
11/7/2022								
11/14/2022								
11/17/2022	8.51	9.42	0.05	0	0	0.45	0.1	0.05
11/24/2022								
12/1/2022								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
11/7/2022							
11/14/2022							
11/17/2022	95	0.62	0.92	0	100+	100+	168
11/24/2022							
12/1/2022							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
11/7/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
11/14/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
11/17/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.3
11/24/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
12/1/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
11/7/2022			
11/14/2022			
11/17/2022	2	0.51	0.2
11/24/2022			
12/1/2022			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2022

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
11/17/2022	2, 4,5, 6, 8	2	6.10	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
11/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
11/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
11/17/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.025000	ND	0.68473	Not Sampled	Not Sampled	0.037000	0.042670

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
December 2022

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
12/11/2022								
12/18/2022								
12/21/2022	33760.5	System off	NA	0	0	System off	38.73	11.14
12/28/2022								
1/4/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
12/11/2022								
12/18/2022								
12/21/2022	9.18	9.74	0.1	0	0	0.15	0.1	0.05
12/28/2022								
1/4/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
December 2022

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
12/11/2022							
12/18/2022							
12/21/2022	105	0.51	0.86	0	100+	100+	180
12/28/2022							
1/4/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
12/11/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
12/18/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
12/21/2022	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.3
12/28/2022	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/4/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
12/11/2022			
12/18/2022			
12/21/2022	1	0.36	0.18
12/28/2022			
1/4/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
December 2022

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
12/21/2022	2, 4,5, 6, 8	2	6.37	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
12/21/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
12/21/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
December 2022

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
12/21/2022	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.060000	ND	0.077280	Not Sampled	Not Sampled	0.029000	0.04494

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
1/7/2023								
1/14/2023								
1/17/2023	34407.9	System off	NA	0	0	System off	37.9	9.58
1/24/2023								
1/31/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
1/7/2023								
1/14/2023								
1/17/2023	8.24	8.75	0.05	0	0	0.75	0.1	0.05
1/24/2023								
1/31/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
1/7/2023							
1/14/2023							
1/17/2023	100+	0.96	0.96	0	100+	100+	182
1/24/2023							
1/31/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
1/7/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/17/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.27
1/24/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/31/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
1/7/2023			
1/14/2023			
1/17/2023	0	0.39	0.09
1/24/2023			
1/31/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

	Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
1/17/2023	2, 4,5, 6, 8	Not recorded	5.42	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
1/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
1/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
1/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.069000	ND	0.094364	Not Sampled	Not Sampled	0.039000	0.05012

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
February 2023

	Sample Location (Frequency / Turnaround Time)														
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
2/7/2023								
2/14/2023								
2/17/2023	35150.9	System off	NA	0	0	System off	37.81	9.69
2/24/2023								
3/3/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
2/7/2023								
2/14/2023								
2/17/2023	9.04	9.56	0.15	0	0	0.95	0.15	0.05
2/24/2023								
3/3/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
February 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
2/7/2023							
2/14/2023							
2/17/2023	100+	0.87	0.94	0	100+	100+	192
2/24/2023							
3/3/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
2/7/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
2/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
2/17/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.60
2/24/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
3/3/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
2/7/2023			
2/14/2023			
2/17/2023	0	0.37	0.2
2/24/2023			
3/3/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
February 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
2/17/2023	2, 4,5, 6, 8	Not recorded	5.61	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
2/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
2/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
February 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
2/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.035000	ND	0.043378	Not Sampled	Not Sampled	0.022000	0.030582

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
March 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
3/7/2023								
3/14/2023								
3/17/2023								
3/24/2023								
3/31/2023	36159.6	System off	NA	0	0	System off	36.77	9.34

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
3/7/2023								
3/14/2023								
3/17/2023								
3/24/2023								
3/31/2023	8.01	8.6	0	0	0	0.85	0.1	0.05

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
March 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
3/7/2023							
3/14/2023							
3/17/2023							
3/24/2023							
3/31/2023	97	0.53	0	0	100+	100+	210

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
3/7/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
3/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
3/17/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	
3/24/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
3/31/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	1.7

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
3/7/2023			
3/14/2023			
3/17/2023			
3/24/2023			
3/31/2023	1	0.32	0

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
March 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
3/31/2023	2, 4,5, 6, 8	Not recorded	5.34	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
3/31/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
3/31/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
March 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
3/31/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.023000	ND	0.033234	Not Sampled	Not Sampled	0.013000	0.020956

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
April 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
2/4/2023								
2/11/2023								
2/14/2023	36495.1	System off	NA	0	0	System off	36.47	9.75
2/21/2023								
2/28/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
2/4/2023								
2/11/2023								
2/14/2023	8.47	8.99	0	0	0	0.9	0.23	0
2/21/2023								
2/28/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
April 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
2/4/2023							
2/11/2023							
2/14/2023	100+	0.55	0.1	0	100+	100+	220
2/21/2023							
2/28/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
2/4/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
2/11/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
2/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.00
2/21/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
2/28/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
2/4/2023			
2/11/2023			
2/14/2023	0	0.3	0
2/21/2023			
2/28/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
April 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
2/14/2023	2, 4,5, 6, 8	0	5.59	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
2/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
2/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
April 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
2/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.036000	ND	0.054649	Not Sampled	Not Sampled	Not Sampled	Not Sampled
1/0/1900	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Sampled	Not Sampled	Not Sampled	Not Sampled	Not Sampled	0.017000	0.021880

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
May 2023

	Sample Location (Frequency / Turnaround Time)														
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
5/8/2023								
5/15/2023								
5/18/2023	37310.3	System off	NA	0	0	System off	36.11	10.15
5/25/2023								
6/1/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
5/8/2023								
5/15/2023								
5/18/2023	9.02	9.6	0	0	0	0.85	0.2	0.05
5/25/2023								
6/1/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
May 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
5/8/2023							
5/15/2023							
5/18/2023	120	0.63	0.2	0	136	138	210
5/25/2023							
6/1/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
5/8/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
5/15/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
5/18/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.10
5/25/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
6/1/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
5/8/2023			
5/15/2023			
5/18/2023	0	1	0.1
5/25/2023			
6/1/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
May 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
5/18/2023	2, 4,5, 6, 8	2	6.18	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
5/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
5/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
May 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
5/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.044000	ND	0.053342	Not Sampled	Not Sampled	0.026000	0.034334

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
June 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
6/7/2023								
6/14/2023								
6/17/2023	38003.6	System off	NA	0	0	System off	39.26	9.41
6/24/2023								
7/1/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
6/7/2023								
6/14/2023								
6/17/2023	8.74	9.66	0	0	0	0.95	0.3	0
6/24/2023								
7/1/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
June 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
6/7/2023							
6/14/2023							
6/17/2023	100	0.71	0.2	0	100	100	250
6/24/2023							
7/1/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
6/7/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
6/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
6/17/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.10
6/24/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/1/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
6/7/2023			
6/14/2023			
6/17/2023	0	0.23	0
6/24/2023			
7/1/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
June 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
6/17/2023	2, 4,5, 6, 8	2	6.07	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
6/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
6/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
June 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
6/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.061000	ND	0.08265	Not Sampled	Not Sampled	0.045000	0.059056

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
7/7/2023								
7/14/2023								
7/17/2023	38682.8	System off	NA	0	0	System off	38.39	10.37
7/24/2023								
7/31/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
7/7/2023								
7/14/2023								
7/17/2023	8.89	10.03	0	0	0	0.6	0.05	0
7/24/2023								
7/31/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
7/7/2023							
7/14/2023							
7/17/2023	74	0.55	0	0	120	100	170
7/24/2023							
7/31/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
7/7/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/17/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.00
7/24/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
7/31/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
7/7/2023			
7/14/2023			
7/17/2023	2	0.56	0
7/24/2023			
7/31/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
7/17/2023	2, 4,5, 6, 8	2	6.23	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
7/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
7/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
July 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
7/17/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.110000	ND	0.116752	Not Sampled	Not Sampled	0.044000	0.05502

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
8/8/2023								
8/15/2023								
8/18/2023	39451	System off	NA	0	0	System off	38.99	10.41
8/25/2023								
9/1/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
8/8/2023								
8/15/2023								
8/18/2023	9.02	9.62	0.05	0	0	0.55	0.05	0
8/25/2023								
9/1/2023								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
8/8/2023							
8/15/2023							
8/18/2023	72	0.59	0	0	100	100	165
8/25/2023							
9/1/2023							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
8/8/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
8/15/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
8/18/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.00
8/25/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/1/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
8/8/2023			
8/15/2023			
8/18/2023	3	0.62	0
8/25/2023			
9/1/2023			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
8/18/2023	2, 4,5, 6, 8	2	6.17	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
8/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
8/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
August 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
8/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.071000	0.00038	0.086382	Not Sampled	Not Sampled	0.028000	0.036226

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
9/8/2023								
9/15/2023								
9/18/2023	40194.6	System off	NA	0	0	System off	39.41	11.02
9/25/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
9/8/2023								
9/15/2023								
9/18/2023	9.88	10.44	0.05	0	0	0.5	0.1	0.05
9/25/2023								
1/0/1900								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
9/8/2023							
9/15/2023							
9/18/2023	76	0.57	0	0	100	100	160
9/25/2023							
1/0/1900							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/8/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/15/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/18/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	15.10
9/25/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/0/1900	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/8/2023			
9/15/2023			
9/18/2023	2	0.64	0
9/25/2023			
1/0/1900			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
9/18/2023	2, 4,5, 6, 8	2	7.09	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
September 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.069000	0.00000	0.075202	Not Sampled	Not Sampled	0.030000	0.036412

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
9/8/2023								
9/15/2023								
9/18/2023	40961.4	System off	NA	0	0	System off	39.33	10.98
9/25/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
9/8/2023								
9/15/2023								
9/18/2023	9.46	10.4	0.05	0	0	0.45	0.1	0.05
9/25/2023								
1/0/1900								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
9/8/2023							
9/15/2023							
9/18/2023	76	0.51	0	0	100	100	160
9/25/2023							
1/0/1900							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/8/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/15/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
9/18/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	12.50
9/25/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/0/1900	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
9/8/2023			
9/15/2023			
9/18/2023	2	0.62	0
9/25/2023			
1/0/1900			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
9/18/2023	2, 4,5, 6, 8	0	7.06	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
October 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
9/18/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.024000	0.00000	0.031184	Not Sampled	Not Sampled	0.065000	0.077262

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2023

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
11/4/2023								
11/11/2023								
11/14/2023	41561.6	System off	NA	0	0	System off	39.44	11.11
11/21/2023								

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
11/4/2023								
11/11/2023								
11/14/2023	9.29	10.49	0.05	0	0	0.45	0.1	0
11/21/2023								
1/0/1900								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2023

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
11/4/2023							
11/11/2023							
11/14/2023	77	0.54	0	0	100	100	150
11/21/2023							
1/0/1900							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
11/4/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
11/11/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
11/14/2023	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	7.40
11/21/2023	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/0/1900	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
11/4/2023			
11/11/2023			
11/14/2023	1	0.66	0.3
11/21/2023			
1/0/1900			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2023

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
11/14/2023	2, 4,5, 6, 8	0	7.10	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
11/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
11/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
November 2023

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
11/14/2023	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.048000	0.00000	0.056694	Not Sampled	Not Sampled	0.019000	0.022244

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2024

	Sample Location (Frequency / Turnaround Time)													
Parameter / Method	Extraction Well		Influent Groundwater (GWS-IN)		Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Temperature / Gauge											**Weekly[5] / Field**			
Pressure / Gauge	*Monthly / Field*		**Weekly / Field**			*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5]/ Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Flow Rate / Meter			**Weekly / Field**		**Weekly / Field**		**Weekly / Field**	**Weekly / Field**					**Weekly / Field**	**Weekly / Field**
Flow Total / Meter					**Weekly / Field**			**Weekly / Field**						
Level / Sight Gauge									**Weekly/ Field**					
Groundwater Elevation / Panel Display	**Weekly / Field**													
VOC Conc. / PID						*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**

			Extraction Well	Influent Groundwater		Effluent Groundwater	Groundwater Monitoring Wells	
Date	SVE Cumulative Hours Operational (hours)	AS Cumulative Hours Operational (hours)	GW Elevation via Panel Display (inches above PT)	Pressure via Gauge (psi)	Flow Rate via Meter (GPM)	Flow Total via Meter (gallons)	MW-104 Depth to Water (ft below TOC)	HA-111 Depth to Water (ft below TOC)
1/14/2024								
1/21/2024								
1/24/2024								
1/31/2024	43434.8	System off	NA	0	0	System off	36.86	9.04

	Groundwater Monitoring Wells (Cont.)		VE-2	VE-3	VE-4	VE-5	VE-6	VE-8
Date	MW-111I Depth to Water (ft below TOC)	OW-1 Depth to Water (ft below TOC)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)	Flow Rate via Meter (inches H2O)
1/14/2024								
1/21/2024								
1/24/2024								
1/31/2024	8.34	8.51	0.05	0	0	0.45	0.1	0
1/0/1900								

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2024

	Combined Influent Soil Vapor			Moisture Separator	Particulate Filter		Heat Exchanger
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. Via PID (ppmv)	Level via Sight Gauge (inches)	Pressure before filter via Gauge (inches H2O)	Pressure after filter via Gauge (inches H2O)	Temperature before exchanger via Gauge (°F)
1/14/2024							
1/21/2024							
1/24/2024							
1/31/2024	80	0.53	0	0	100	100	162
1/0/1900							

	GAC Units					Air Stripper Vent Discharge		
Date	Pressure before GAC units via Gauge (inches H2O)	Pressure between GAC units via Gauge (inches H2O)	VOC Conc. before GAC units via PID (ppmv)	VOC Conc. between GAC units via PID (ppmv)	VOC Conc. after GAC units via PID (ppm v/v)	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
1/14/2024	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/21/2024	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/24/2024	Removed	Removed	Removed	Removed	Removed	No Instrument		
1/31/2024	Removed	Removed	Removed	Removed	Removed	No Instrument	System Off	0.90
1/0/1900	Removed	Removed	Removed	Removed	Removed	No Instrument		

	Combined Stack Vent Discharge		
Date	Pressure via Gauge (inches H2O)	Flow Rate via Meter (inches H2O)	VOC Conc. via PID (ppm v/v)
1/14/2024			
1/21/2024			
1/24/2024			
1/31/2024	1	0.56	0.5
1/0/1900			

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2024

	Sample Location (Frequency / Turnaround Time)											
Parameter / Method	Extraction Well	Influent Groundwater (GWS-IN)	Effluent Groundwater (GWS-TE)	Vapor Monitoring Points	Vapor Extraction Wells	Combined Influent Soil Vapor (SVE)	Moisture Separator	Particulate Filter	Heat Exchanger	GAC Units	Air Stripper Vent Discharge (ASE)	Combined Stack Vent Discharge (CSV)
Pressure / Gauge	*Monthly / Field*	**Weekly / Field**		*Monthly / Field*	*Monthly / Field*	**Weekly / Field**		**Weekly[5] / Field**		**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
Groundwater Elevation /	*Monthly / Field*											
VOC Conc. / PID				*Monthly / Field*	*Monthly / Field*	**Weekly / Field**				**Weekly[6] / Field**	**Weekly / Field**	**Weekly / Field**
VOC Conc. / (L: USEPA		*Monthly / 14 day*	*Per Discharge Permit[4] / 14*			*Monthly / 14 day*					*Monthly / 14 day*	*Monthly / 14 day*
Total VOCs since start up /		*Monthly / calculated*	*Monthly / calculated*			*Monthly / calculated*					*Monthly / calculated*	*Monthly / calculated*

		Extraction Well		Influent Groundwater		Effluent Groundwater	
Date	VE Wells Open	Pressure via Gauge (psi)	GW Elevation via Portable Meter (feet)	PCE Conc. via USEPA method 624 (mg/L)	Total VOC Conc. via USEPA method 624 (mg/L)	PCE Conc. via USEPA method 624 (ug/L)	Total VOC Conc. via USEPA method 624 (ug/L)
1/31/2024	2, 4,5, 6, 8	0	5.31	Not Sampled	Not Sampled	Not Sampled	Not Sampled

	VP-1		VP-2		VP-3		VP-4		VP-5		VP-6	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
1/31/2024	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

	VP-7		VP-9		VE-2		VE-3		VE-4		VE-5	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)
1/31/2024	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded	Not Recorded

Carriage Cleaners Weekly Sampling Log
Brighton, Monroe County, New York
January 2024

	VE-6		VE-8		Combined Influent Soil Vapor			Air Stripper Vent Discharge		Combined Stack Vent Discharge	
Date	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	Pressure via Gauge (inches H2O)	VOC Conc. via PID (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Napthalene Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)	PCE Conc. via USEPA method TO-15 (ppm v/v)	Total VOC Conc. via USEPA method TO-15 (ppm v/v)
1/31/2024	Not Recorded	Not Recorded	Not Recorded	Not Recorded	0.020000	0.00000	0.089388	Not Sampled	Not Sampled	0.008500	0.024568

APPENDIX C

LABORATORY VALDATION REPORTS

CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in October 2022 at Carriage Cleaners in Brighton, New York, and shipped to Con-test Analytical Laboratory located in East Longmeadow, Massachusetts, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

Results were reported in the following sample delivery groups (SDGs):
- 22J3631
- 22J3896
- 22J4221

Sample event information included in this chemistry review is presented in the following Tables:
- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions.

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:
- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated
UJ = target analyte is not detected, value is estimated
J+ = concentration is estimated, potentially biased high
J- = concentration is estimated, potentially biased low

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260D

Reporting limits for bromomethane in sample 828120HA114012 and its associated field duplicate, 828120DUP, were qualified estimated (UJ) based on low recovery in the associated MS/MSD. The qualified results are included in Table 3 with reason code MSL.

Reporting limits for 1,2,3-trichlorobenzene, chloromethane, dichlorodifluoromethane (Freon 12), 1,1-dichloroethene, and 2,2-dichloropropane in sample 828120MW210012 and its associated field duplicate, 828120DUP2, were qualified estimated (UJ) based on low recovery in the associated MS/MSD. The qualified results are included in Table 3 with reason code MSL.

Results for vinyl chloride in sample 828120MW210012 and its associated field duplicate, 828120DUP2, were qualified estimated (J+) with potential high bias based on high recoveries in the associated MS/MSD and LCS/LCSD. Qualified results are included in Table 3 with reason code MSH.

Results for cis-1,2-dichloroethene in sample 828120MW210012 and its associated field duplicate, 828120DUP2, were qualified estimated (J-) with potential low bias based on low recovery in the associated MS/MSD. Qualified results are included in Table 3 with reason code MSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Reporting limits in samples 828120MW06B018, 828120MW08B019, and 828120MW06009 are elevated due to dilutions as indicated in Table 2.

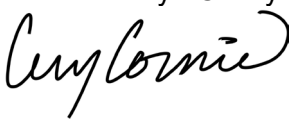
Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

Data Validator: Kassidy Patoine

Date: 12/2/2022

Reviewed by: Casey Cormier



Date: 1/23/2023

Reviewed by: Julie Ricardi

Date: 2/9/2023

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Analysis Method	SW8260	SW6010	SW6010	RSK175	E300.0	SM2320B
					Method Class	VOCs	Metals	Metals	Diss Gases	Anions	Alkalinity
					Fraction	N	D	T	N	N	N
SDG	**Location**	**Field Sample ID**	**Media**	**Sample Date**	**Qc Code**	Count	Count	Count	Count	Count	Count
22J3631	HA-114	828120DUP	GW	10/25/2022	FD	78					
22J3631	HA-114	828120HA114012	GW	10/25/2022	FS	78	1	2	3	3	1
22J3631	MW-6B	828120MW06B018	GW	10/25/2022	FS	78					
22J3631	MW-8B	828120MW08B019	GW	10/25/2022	FS	78					
22J3631	QC	828120FB	BW	10/25/2022	FB	78					
22J3631	QC	828120TB	BW	10/25/2022	TB	78					
22J3896	MW-111I	828120MW111I020	GW	10/26/2022	FS	78	1	2	3	3	1
22J3896	MW-210	828120DUP2	GW	10/26/2022	FD	78					
22J3896	MW-210	828120MW210012	GW	10/26/2022	FS	78	1	2	3	3	1
22J3896	MW-6	828120MW06009	GW	10/26/2022	FS	78					
22J3896	MW-9B	828120MW09B018	GW	10/26/2022	FS	78					
22J3896	QC	828120FB2	BW	10/26/2022	FB	78					
22J4221	EW-1	828120EW01026	GW	10/27/2022	FS	78	1	2	3	2	1
22J4221	MW-9	828120MW09008	GW	10/27/2022	FS	78	1	2	3	2	1
22J4221	QC	828120FB3	BW	10/27/2022	FB	78					

Created by: KLD 1/9/23
Checked by: KRP 1/17/23

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Analysis Method	SM4500 CL B	SM4500-S2-F	SM5310B
					Method Class	Chloride	Sulfide	TOC
					Fraction	N	N	N
SDG	**Location**	**Field Sample ID**	**Media**	**Sample Date**	**Qc Code**	Count	Count	Count
22J3631	HA-114	828120DUP	GW	10/25/2022	FD			
22J3631	HA-114	828120HA114012	GW	10/25/2022	FS		1	1
22J3631	MW-6B	828120MW06B018	GW	10/25/2022	FS			
22J3631	MW-8B	828120MW08B019	GW	10/25/2022	FS			
22J3631	QC	828120FB	BW	10/25/2022	FB			
22J3631	QC	828120TB	BW	10/25/2022	TB			
22J3896	MW-111I	828120MW111I020	GW	10/26/2022	FS		1	1
22J3896	MW-210	828120DUP2	GW	10/26/2022	FD			
22J3896	MW-210	828120MW210012	GW	10/26/2022	FS		1	1
22J3896	MW-6	828120MW06009	GW	10/26/2022	FS			
22J3896	MW-9B	828120MW09B018	GW	10/26/2022	FS			
22J3896	QC	828120FB2	BW	10/26/2022	FB			
22J4221	EW-1	828120EW01026	GW	10/27/2022	FS	1	1	1
22J4221	MW-9	828120MW09008	GW	10/27/2022	FS	1	1	1
22J4221	QC	828120FB3	BW	10/27/2022	FB			

Created by: KLD 1/9/23
Checked by: KRP 1/17/23

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		HA-114		MW-111I	
		Lab SDG	22J4221		22J3631		22J3631		22J3896	
		Field Sample Date	10/27/2022		10/25/2022		10/25/2022		10/26/2022	
		Field Sample ID	828120EW01026		828120DUP		828120HA114012		828120MW111I020	
		QC Code	FS		FD		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	2	U	1	U	1	U	2	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	0.22	J
SW8260	1,1-Dichloropropene	UG/L	2	U	2	U	2	U	2	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	U	5	U	5	U	5	U
SW8260	1,2,3-Trichloropropane	UG/L	2	U	2	U	2	U	2	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	U	5	U	5	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,4-Dioxane	UG/L	50	U	50	U	50	U	50	U
SW8260	2,2-Dichloropropane	UG/L	1	U	1	U	1	U	1	U
SW8260	2-Butanone	UG/L	20	U	20	U	20	U	20	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		HA-114		MW-111I	
		Lab SDG	22J4221		22J3631		22J3631		22J3896	
		Field Sample Date	10/27/2022		10/25/2022		10/25/2022		10/26/2022	
		Field Sample ID	828120EW01026		828120DUP		828120HA114012		828120MW111I020	
		QC Code	FS		FD		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	2-Hexanone	UG/L	10	U	10	U	10	U	10	U
SW8260	4-Chlorotoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	UG/L	1	U	1	U	1	U	1	U
SW8260	Acetone	UG/L	50	U	50	U	50	U	50	U
SW8260	Acrylonitrile	UG/L	5	U	5	U	5	U	5	U
SW8260	Benzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromochloromethane	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromodichloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Bromoform	UG/L	2	U	1	U	1	U	2	U
SW8260	Bromomethane	UG/L	2	U	2	UJ	2	UJ	2	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Carbon disulfide	UG/L	5	U	5	U	5	U	5	U
SW8260	Carbon tetrachloride	UG/L	5	U	5	U	5	U	5	U
SW8260	Chlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Chloroethane	UG/L	2	U	2	U	2	U	2	U
SW8260	Chloroform	UG/L	2	U	2	U	2	U	2	U
SW8260	Chloromethane	UG/L	2	U	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	UG/L	0.68	J	31		31		110	
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromochloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromomethane	UG/L	1	U	1	U	1	U	1	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		HA-114		MW-111I	
		Lab SDG	22J4221		22J3631		22J3631		22J3896	
		Field Sample Date	10/27/2022		10/25/2022		10/25/2022		10/26/2022	
		Field Sample ID	828120EW01026		828120DUP		828120HA114012		828120MW111I020	
		QC Code	FS		FD		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	U	2	U	2	U	2	U
SW8260	Diethyl ether	UG/L	2	U	2	U	2	U	2	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Ethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	0.6	U	0.6	U	0.6	U
SW8260	Isopropyl ether	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Isopropylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Methyl cyclohexane	UG/L	1	U	1	U	1	U	0.26	J
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	1	U	1	U	1	U
SW8260	Methylene chloride	UG/L	5	U	5	U	5	U	5	U
SW8260	n-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Naphthalene	UG/L	2	U	2	U	2	U	2	U
SW8260	Propylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	sec-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Styrene	UG/L	1	U	1	U	1	U	1	U
SW8260	t-Butyl alcohol	UG/L	20	U	20	U	20	U	20	U
SW8260	tert-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Tetrachloroethene	UG/L	45		170		170		140	
SW8260	Tetrahydrofuran	UG/L	10	U	10	U	10	U	10	U
SW8260	Toluene	UG/L	1	U	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	UG/L	1	U	0.39	J	0.45	J	1	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	U	2	U	2	U	2	U
SW8260	Trichloroethene	UG/L	1.4		30		31		40	
SW8260	Trichlorofluoromethane	UG/L	2	U	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		HA-114		MW-111I	
		Lab SDG	22J4221		22J3631		22J3631		22J3896	
		Field Sample Date	10/27/2022		10/25/2022		10/25/2022		10/26/2022	
		Field Sample ID	828120EW01026		828120DUP		828120HA114012		828120MW111I020	
		QC Code	FS		FD		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	2	U	1.3	J	1.4	J	14	
SW8260	Xylene, o	UG/L	1	U	1	U	1	U	1	U
SW8260	Xylenes (m&p)	UG/L	2	U	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-210		MW-6		MW-6B	
		Lab SDG	22J3896		22J3896		22J3896		22J3631	
		Field Sample Date	10/26/2022		10/26/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120DUP2		828120MW210012		828120MW06009		828120MW06B018	
		QC Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	2	U	2	U	50	U	10	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,1-Dichloroethane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,1-Dichloroethene	UG/L	1	UJ	1	UJ	50	U	10	U
SW8260	1,1-Dichloropropene	UG/L	2	U	2	U	100	U	20	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	UJ	5	UJ	250	U	50	U
SW8260	1,2,3-Trichloropropane	UG/L	2	U	2	U	100	U	20	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	U	250	U	50	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,2-Dichloroethane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,2-Dichloropropane	UG/L	1	U	1	U	50	U	10	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	1,4-Dioxane	UG/L	50	U	50	U	2500	U	500	U
SW8260	2,2-Dichloropropane	UG/L	1	UJ	1	UJ	50	U	10	U
SW8260	2-Butanone	UG/L	20	U	20	U	1000	U	200	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-210		MW-6		MW-6B	
		Lab SDG	22J3896		22J3896		22J3896		22J3631	
		Field Sample Date	10/26/2022		10/26/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120DUP2		828120MW210012		828120MW06009		828120MW06B018	
		QC Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	1	U	50	U	10	U
SW8260	2-Hexanone	UG/L	10	U	10	U	500	U	100	U
SW8260	4-Chlorotoluene	UG/L	1	U	1	U	50	U	10	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	1	U	50	U	10	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	10	U	500	U	100	U
SW8260	Acetic acid, methyl ester	UG/L	1	U	1	U	50	U	10	U
SW8260	Acetone	UG/L	50	U	50	U	2500	U	31	J
SW8260	Acrylonitrile	UG/L	5	U	5	U	250	U	50	U
SW8260	Benzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Bromobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Bromochloromethane	UG/L	1	U	1	U	50	U	10	U
SW8260	Bromodichloromethane	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Bromoform	UG/L	2	U	2	U	50	U	10	U
SW8260	Bromomethane	UG/L	2	U	2	U	100	U	20	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Carbon disulfide	UG/L	5	U	5	U	250	U	50	U
SW8260	Carbon tetrachloride	UG/L	5	U	5	U	250	U	50	U
SW8260	Chlorobenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Chloroethane	UG/L	2	U	2	U	100	U	10	J
SW8260	Chloroform	UG/L	2	U	2	U	100	U	20	U
SW8260	Chloromethane	UG/L	2	UJ	2	UJ	100	U	20	U
SW8260	cis-1,2-Dichloroethene	UG/L	15	J-	16	J-	150		50	
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Dibromochloromethane	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Dibromomethane	UG/L	1	U	1	U	50	U	10	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-210		MW-6		MW-6B	
		Lab SDG	22J3896		22J3896		22J3896		22J3631	
		Field Sample Date	10/26/2022		10/26/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120DUP2		828120MW210012		828120MW06009		828120MW06B018	
		QC Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	UJ	2	UJ	100	U	20	U
SW8260	Diethyl ether	UG/L	2	U	2	U	100	U	20	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Ethylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	0.6	U	30	U	6	U
SW8260	Isopropyl ether	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	Isopropylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Methyl cyclohexane	UG/L	1	U	1	U	50	U	10	U
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	1	U	50	U	10	U
SW8260	Methylene chloride	UG/L	5	U	5	U	250	U	50	U
SW8260	n-Butylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Naphthalene	UG/L	2	U	2	U	100	U	20	U
SW8260	Propylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	sec-Butylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Styrene	UG/L	1	U	1	U	50	U	10	U
SW8260	t-Butyl alcohol	UG/L	20	U	20	U	1000	U	200	U
SW8260	tert-Butylbenzene	UG/L	1	U	1	U	50	U	10	U
SW8260	Tetrachloroethene	UG/L	49		50		2000		990	
SW8260	Tetrahydrofuran	UG/L	10	U	10	U	500	U	100	U
SW8260	Toluene	UG/L	1	U	1	U	50	U	10	U
SW8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	50	U	10	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	25	U	5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	U	2	U	100	U	20	U
SW8260	Trichloroethene	UG/L	9.8		9.8		240		63	
SW8260	Trichlorofluoromethane	UG/L	2	U	2	U	100	U	20	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-210		MW-6		MW-6B	
		Lab SDG	22J3896		22J3896		22J3896		22J3631	
		Field Sample Date	10/26/2022		10/26/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120DUP2		828120MW210012		828120MW06009		828120MW06B018	
		QC Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	3.4	J+	3.8	J+	26	J	3.7	J
SW8260	Xylene, o	UG/L	1	U	1	U	50	U	10	U
SW8260	Xylenes (m&p)	UG/L	2	U	2	U	100	U	20	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC	
		Lab SDG	22J3631		22J4221		22J3896		22J3631	
		Field Sample Date	10/25/2022		10/27/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120MW08B019		828120MW09008		828120MW09B018		828120TB	
		QC Code	FS		FS		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,1,1-Trichloroethane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	5	U	2	U	1	U	1	U
SW8260	1,1,2-Trichloroethane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,1-Dichloropropene	UG/L	10	U	2	U	2	U	2	U
SW8260	1,2,3-Trichlorobenzene	UG/L	25	U	5	U	5	U	5	U
SW8260	1,2,3-Trichloropropane	UG/L	10	U	2	U	2	U	2	U
SW8260	1,2,4-Trichlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,2,4-Trimethylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	25	U	5	U	5	U	5	U
SW8260	1,2-Dibromoethane	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	UG/L	5	U	1	U	1	U	1	U
SW8260	1,3,5-Trichlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,3,5-Trimethylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,3-Dichloropropane	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,4-Dichlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	1,4-Dioxane	UG/L	250	U	50	U	50	U	50	U
SW8260	2,2-Dichloropropane	UG/L	5	U	1	U	1	U	1	U
SW8260	2-Butanone	UG/L	18	J	20	U	20	U	20	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC	
		Lab SDG	22J3631		22J4221		22J3896		22J3631	
		Field Sample Date	10/25/2022		10/27/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120MW08B019		828120MW09008		828120MW09B018		828120TB	
		QC Code	FS		FS		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	5	U	1	U	1	U	1	U
SW8260	2-Hexanone	UG/L	50	U	10	U	10	U	10	U
SW8260	4-Chlorotoluene	UG/L	5	U	1	U	1	U	1	U
SW8260	4-iso-Propyltoluene	UG/L	5	U	1	U	1	U	1	U
SW8260	4-Methyl-2-pentanone	UG/L	50	U	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	UG/L	5	U	1	U	1	U	1	U
SW8260	Acetone	UG/L	14	J	50	U	50	U	50	U
SW8260	Acrylonitrile	UG/L	25	U	5	U	5	U	5	U
SW8260	Benzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Bromobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Bromochloromethane	UG/L	5	U	1	U	1	U	1	U
SW8260	Bromodichloromethane	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Bromoform	UG/L	5	U	2	U	1	U	1	U
SW8260	Bromomethane	UG/L	10	U	2	U	2	U	2	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Carbon disulfide	UG/L	25	U	5	U	5	U	5	U
SW8260	Carbon tetrachloride	UG/L	25	U	5	U	5	U	5	U
SW8260	Chlorobenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Chloroethane	UG/L	10	U	2	U	2	U	2	U
SW8260	Chloroform	UG/L	10	U	2	U	2	U	2	U
SW8260	Chloromethane	UG/L	10	U	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	UG/L	14		1	U	0.32	J	1	U
SW8260	cis-1,3-Dichloropropene	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromochloromethane	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromomethane	UG/L	5	U	1	U	1	U	1	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC	
		Lab SDG	22J3631		22J4221		22J3896		22J3631	
		Field Sample Date	10/25/2022		10/27/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120MW08B019		828120MW09008		828120MW09B018		828120TB	
		QC Code	FS		FS		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	10	U	2	U	2	U	2	U
SW8260	Diethyl ether	UG/L	10	U	2	U	2	U	2	U
SW8260	Ethyl-t-Butyl Ether	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Ethylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Hexachlorobutadiene	UG/L	3	U	0.6	U	0.6	U	0.6	U
SW8260	Isopropyl ether	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	Isopropylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Methyl cyclohexane	UG/L	5	U	1	U	1	U	1	U
SW8260	Methyl Tertbutyl Ether	UG/L	5	U	1	U	1	U	1	U
SW8260	Methylene chloride	UG/L	25	U	5	U	5	U	5	U
SW8260	n-Butylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Naphthalene	UG/L	10	U	2	U	2	U	2	U
SW8260	Propylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	sec-Butylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Styrene	UG/L	5	U	1	U	1	U	1	U
SW8260	t-Butyl alcohol	UG/L	100	U	20	U	20	U	20	U
SW8260	tert-Butylbenzene	UG/L	5	U	1	U	1	U	1	U
SW8260	Tetrachloroethene	UG/L	380		4.6		1	U	1	U
SW8260	Tetrahydrofuran	UG/L	50	U	10	U	10	U	10	U
SW8260	Toluene	UG/L	5	U	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	UG/L	5	U	1	U	1	U	1	U
SW8260	trans-1,3-Dichloropropene	UG/L	2.5	U	0.5	U	0.5	U	0.5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	10	U	2	U	2	U	2	U
SW8260	Trichloroethene	UG/L	16		0.51	J	1	U	1	U
SW8260	Trichlorofluoromethane	UG/L	10	U	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC	
		Lab SDG	22J3631		22J4221		22J3896		22J3631	
		Field Sample Date	10/25/2022		10/27/2022		10/26/2022		10/25/2022	
		Field Sample ID	828120MW08B019		828120MW09008		828120MW09B018		828120TB	
		QC Code	FS		FS		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	10	U	2	U	2	U	2	U
SW8260	Xylene, o	UG/L	5	U	1	U	1	U	1	U
SW8260	Xylenes (m&p)	UG/L	10	U	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC		QC		QC	
		Lab SDG	22J3631		22J3896		22J4221	
		Field Sample Date	10/25/2022		10/26/2022		10/27/2022	
		Field Sample ID	828120FB		828120FB2		828120FB3	
		QC Code	FB		FB		FB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	1	U	1	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	2	U	2	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	UG/L	1	U	1	U	1	U
SW8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U
SW8260	1,1-Dichloropropene	UG/L	2	U	2	U	2	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	U	5	U	5	U
SW8260	1,2,3-Trichloropropane	UG/L	2	U	2	U	2	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	1	U
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	U	5	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	UG/L	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	UG/L	1	U	1	U	1	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	1	U	1	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	1	U	1	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	0.5	U	0.5	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	1	U	1	U
SW8260	1,4-Dioxane	UG/L	50	U	50	U	50	U
SW8260	2,2-Dichloropropane	UG/L	1	U	1	U	1	U
SW8260	2-Butanone	UG/L	20	U	20	U	20	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC		QC		QC	
		Lab SDG	22J3631		22J3896		22J4221	
		Field Sample Date	10/25/2022		10/26/2022		10/27/2022	
		Field Sample ID	828120FB		828120FB2		828120FB3	
		QC Code	FB		FB		FB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	1	U	1	U
SW8260	2-Hexanone	UG/L	10	U	10	U	10	U
SW8260	4-Chlorotoluene	UG/L	1	U	1	U	1	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	1	U	1	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	UG/L	1	U	1	U	1	U
SW8260	Acetone	UG/L	50	U	50	U	50	U
SW8260	Acrylonitrile	UG/L	5	U	5	U	5	U
SW8260	Benzene	UG/L	1	U	1	U	1	U
SW8260	Bromobenzene	UG/L	1	U	1	U	1	U
SW8260	Bromochloromethane	UG/L	1	U	1	U	1	U
SW8260	Bromodichloromethane	UG/L	0.5	U	0.44	J	0.5	U
SW8260	Bromoform	UG/L	1	U	2	U	2	U
SW8260	Bromomethane	UG/L	2	U	2	U	2	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	0.5	U	0.5	U
SW8260	Carbon disulfide	UG/L	5	U	5	U	5	U
SW8260	Carbon tetrachloride	UG/L	5	U	5	U	5	U
SW8260	Chlorobenzene	UG/L	1	U	1	U	1	U
SW8260	Chloroethane	UG/L	2	U	2	U	2	U
SW8260	Chloroform	UG/L	18		23		18	
SW8260	Chloromethane	UG/L	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U
SW8260	Dibromochloromethane	UG/L	0.5	U	0.5	U	0.5	U
SW8260	Dibromomethane	UG/L	1	U	1	U	1	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC		QC		QC	
		Lab SDG	22J3631		22J3896		22J4221	
		Field Sample Date	10/25/2022		10/26/2022		10/27/2022	
		Field Sample ID	828120FB		828120FB2		828120FB3	
		QC Code	FB		FB		FB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	U	2	U	2	U
SW8260	Diethyl ether	UG/L	2	U	2	U	2	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	0.5	U	0.5	U
SW8260	Ethylbenzene	UG/L	1	U	1	U	1	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	0.6	U	0.6	U
SW8260	Isopropyl ether	UG/L	0.5	U	0.5	U	0.5	U
SW8260	Isopropylbenzene	UG/L	1	U	1	U	1	U
SW8260	Methyl cyclohexane	UG/L	1	U	1	U	1	U
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	1	U	1	U
SW8260	Methylene chloride	UG/L	5	U	5	U	5	U
SW8260	n-Butylbenzene	UG/L	1	U	1	U	1	U
SW8260	Naphthalene	UG/L	2	U	2	U	2	U
SW8260	Propylbenzene	UG/L	1	U	1	U	1	U
SW8260	sec-Butylbenzene	UG/L	1	U	1	U	1	U
SW8260	Styrene	UG/L	1	U	1	U	1	U
SW8260	t-Butyl alcohol	UG/L	20	U	20	U	20	U
SW8260	tert-Butylbenzene	UG/L	1	U	1	U	1	U
SW8260	Tetrachloroethene	UG/L	1	U	1	U	1	U
SW8260	Tetrahydrofuran	UG/L	10	U	10	U	10	U
SW8260	Toluene	UG/L	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	U	2	U	2	U
SW8260	Trichloroethene	UG/L	1	U	1	U	1	U
SW8260	Trichlorofluoromethane	UG/L	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC		QC		QC	
		Lab SDG	22J3631		22J3896		22J4221	
		Field Sample Date	10/25/2022		10/26/2022		10/27/2022	
		Field Sample ID	828120FB		828120FB2		828120FB3	
		QC Code	FB		FB		FB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	2	U	2	U	2	U
SW8260	Xylene, o	UG/L	1	U	1	U	1	U
SW8260	Xylenes (m&p)	UG/L	2	U	2	U	2	U

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

			Location	EW-1		HA-114		MW-111I		MW-210		MW-9	
			Lab SDG	22J4221		22J3631		22J3896		22J3896		22J4221	
			Field Sample Date	10/27/2022		10/25/2022		10/26/2022		10/26/2022		10/27/2022	
			Field Sample ID	828120EW01026		828120HA114012		828120MW111I020		828120MW210012		828120MW09008	
			QC Code	FS		FS		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
RSK175	Ethane	N	MG/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
RSK175	Ethene	N	MG/L	0.017	U	0.017	U	0.017	U	0.017	U	0.017	U
RSK175	Methane	N	MG/L	0.007	U	0.0082		0.0051	J	0.0041	J	0.007	U
E300	Chloride	N	MG/L			480		170		210			
E300	Nitrate as N	N	MG/L	1.2		0.53		0.63		0.65		1.1	
E300	Sulfate	N	MG/L	25		55		69		54		110	
SM2320B	Total Alkalinity, as CaCO3	N	MG/L	270		400		350		370		400	
SM4500 CL	Chloride	N	MG/L	95								610	
SM4500-S2	Sulfide	N	MG/L	2		2	U	2	U	2	U	1.2	J
SM5310B	Total Organic Carbon	N	MG/L	3		22		6.3		10		33	
SW6010	Iron	D	MG/L	0.04	J	0.034	J	0.046	J	0.29		0.049	J
SW6010	Iron	T	MG/L	1.4		0.57		0.21		1.3		0.77	
SW6010	Manganese	T	MG/L	0.027		0.057		0.14		0.096		0.26	

Created by: KLD 1/17/23
Checked by: KRP 1/17/23

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Method	Lab Sample ID	Field Sample ID	Param Name	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
22J3631	SW8260	22J3631-03	828120HA114012	Bromomethane	2	U	2	UJ	MSL	UG/L
22J3631	SW8260	22J3631-04	828120DUP	Bromomethane	2	U	2	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	1,1-Dichloroethene	1	U	1	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	Chloromethane	2	U	2	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	cis-1,2-Dichloroethene	16		16	J-	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	Dichlorodifluoromethane	2	U	2	UJ	MSL	UG/L
22J3896	SW8260	22J3896-04	828120MW210012	Vinyl chloride	3.8		3.8	J+	MSH, LCSH	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	1,1-Dichloroethene	1	U	1	UJ	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	Chloromethane	2	U	2	UJ	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	cis-1,2-Dichloroethene	15		15	J-	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	Dichlorodifluoromethane	2	U	2	UJ	MSL	UG/L
22J3896	SW8260	22J3896-05	828120DUP2	Vinyl chloride	3.4		3.4	J+	MSH, LCSH	UG/L

Created by: KLD 1/17/23
Checked by: KRP 1/17/23

CATEGORY A REVIEW
OCTOBER 2022 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Carriage Cleaners Oct 2022 GW
Method : SW-846 8260C
Laboratory: Con-test **SDG(s):** 22J3631, 22J3896, & 22J4221
Date: 12/2/2022
Reviewer: Kassidy Patoine
Review Level [X] CATEGORY A

1. [X] Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. [X] **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)
3. [X] **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)
   22J3631-06 – chloroform detection U, BL2
   22J3896-06 – chloroform detection U, BL2
   22J4221-03 – chloroform detection U, BL2
4. [X] **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within the Region II limits? YES NO NA (circle one)
   22J3631-03 Bromomethane, UJ, MSL
   22J3896 – see attached UJ, MSL, J-, MSL, J+, MSH
5. [X] **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

   Were all results within Region II control limits? YES NO (circle one)
   22J3896 – see attached J+, LCSH
   22J4221 – see attached, no quals
6. [X] **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

   Were all results within Region II limits? YES NO (circle one)

7. [X] **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region II Limits? YES NO NA (circle one)

8. [X] **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   22J3631-01 was run at a 10x dilution, 22J3631-02 was run at a 5x dilution, 22J3896-01 was run at a 50x dilution
9. [X] **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. [X] **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

con-test®
A Pace Analytical® Laboratory

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

EPA 300.0

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Chloride
B321543-MS1, B321543-MSD1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride
22J3631-03[828120HA114012], B321543-MS1, B321543-MSD1

SM 21-23 5310B

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Total Organic Carbon
22J3631-03[828120HA114012], B322110-MS1, B322110-MSD1

SM21-23 2320B

Qualifications:

PR-18

Headspace present in sample container.

Analyte & Samples(s) Qualified:

Alkalinity
22J3631-03[828120HA114012], B322011-MS1, B322011-MSD1

SW-846 8260D

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Bromomethane
22J3631-03[828120HA114012], B321309-MS1, B321309-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Tetrachloroethylene
22J3631-03[828120HA114012], B321309-MS1, B321309-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22J3631-01[828120MW06B018], 22J3631-02[828120MW08B019]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified: outside of scope

1,2-Dibromo-3-chloropropane (DB
22J3631-01[828120MW06B018], 22J3631-02[828120MW08B019], 22J3631-03[828120HA 114012], 22J3631-04[828120DUP], 22J3631-05[828120TB], 22J3631-06[828120FB], B321309-BLK1, B321309-BS1, B321309-BSD1, B321309-MS1, B321309-MSD1, S078583-CCV1

con-test®
A Pace Analytical® Laboratory

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

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

outside of scope

Analyte & Samples(s) Qualified:

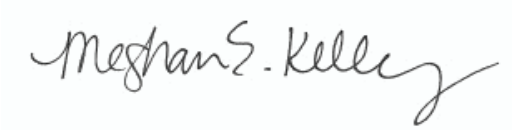
Chloroethane

B321309-BS1, B321309-BSD1, B321309-MS1, B321309-MSD1, S078583-CCV1

Dichlorodifluoromethane (Freon 12

B321309-BS1, B321309-BSD1, B321309-MS1, B321309-MSD1, S078583-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B322011 - SM21-23 2320B												
Blank (B322011-BLK1)					Prepared & Analyzed: 11/03/22							
Alkalinity	ND	1.0	0.65	mg/L								
LCS (B322011-BS1)					Prepared & Analyzed: 11/03/22							
Alkalinity	58	1.0	0.65	mg/L	61.2		95.6		85.8-110			
LCS Dup (B322011-BSD1)					Prepared & Analyzed: 11/03/22							
Alkalinity	58	1.0	0.65	mg/L	61.2		94.0		85.8-110	1.72	6.91	
MRL Check (B322011-MRL1)					Prepared & Analyzed: 11/03/22							
Alkalinity	1.00	1.0	0.65	mg/L	1.00		100		0-200			
MRL Check (B322011-MRL2)					Prepared & Analyzed: 11/03/22							
Alkalinity	1.00	1.0	0.65	mg/L	1.00		100		0-200			
Matrix Spike (B322011-MS1)		**Source: 22J3631-03**			Prepared & Analyzed: 11/03/22							
Alkalinity	450	1.0	0.65	mg/L	50.0	400	98.0		81.4-115			PR-18
Matrix Spike Dup (B322011-MSD1)		**Source: 22J3631-03**			Prepared & Analyzed: 11/03/22							
Alkalinity	460	1.0	0.65	mg/L	50.0	400	108		81.4-115	1.10	20	PR-18
Batch B322110 - SM 21-23 5310B												
Blank (B322110-BLK1)					Prepared & Analyzed: 11/07/22							
Total Organic Carbon	ND	1.0	0.54	mg/L								
LCS (B322110-BS1)					Prepared & Analyzed: 11/07/22							
Total Organic Carbon	10.1	1.0	0.54	mg/L	10.0		101		88.2-114			
LCS Dup (B322110-BSD1)					Prepared & Analyzed: 11/07/22							
Total Organic Carbon	10.3	1.0	0.54	mg/L	10.0		103		88.2-114	1.82	11.1	
Matrix Spike (B322110-MS1)		**Source: 22J3631-03**			Prepared & Analyzed: 11/07/22							
Total Organic Carbon	21.4	1.0	0.54	mg/L	9.99	21.8	**-3.70**	*	10-164			MS-07A
Matrix Spike Dup (B322110-MSD1)		**Source: 22J3631-03**			Prepared & Analyzed: 11/07/22							
Total Organic Carbon	22.6	1.0	0.54	mg/L	9.99	21.8	**8.13**	*	10-164	5.37	20	MS-07A

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321242 - EPA 300.0												
Blank (B321242-BLK1)					Prepared & Analyzed: 10/26/22							
Nitrate as N	ND	0.10	0.042	mg/L								
LCS (B321242-BS1)					Prepared & Analyzed: 10/26/22							
Nitrate as N	0.94	0.10	0.042	mg/L	1.00		94.4		90-110			
LCS Dup (B321242-BSD1)					Prepared & Analyzed: 10/26/22							
Nitrate as N	0.94	0.10	0.042	mg/L	1.00		94.4		90-110	0.0106	20	
Matrix Spike (B321242-MS1)		**Source: 22J3631-03**			Prepared & Analyzed: 10/26/22							
Nitrate as N	1.5	0.10	0.042	mg/L	1.00	0.53	96.2		80-120			
Matrix Spike Dup (B321242-MSD1)		**Source: 22J3631-03**			Prepared & Analyzed: 10/26/22							
Nitrate as N	1.6	0.10	0.042	mg/L	1.00	0.53	103		80-120	4.19	20	
Batch B321420 - SM21-23 4500S-F												
Blank (B321420-BLK1)					Prepared & Analyzed: 10/28/22							
Sulfide	ND	2.0	1.1	mg/L								
LCS (B321420-BS1)					Prepared & Analyzed: 10/28/22							
Sulfide	8.8	2.0	1.1	mg/L	10.0		88.0		81-117			
Batch B321543 - EPA 300.0												
Blank (B321543-BLK1)					Prepared & Analyzed: 10/29/22							
Chloride	ND	1.0	0.56	mg/L								
Sulfate	ND	1.0	0.55	mg/L								
LCS (B321543-BS1)					Prepared & Analyzed: 10/29/22							
Chloride	10	1.0	0.56	mg/L	10.0		104		90-110			
Sulfate	10	1.0	0.55	mg/L	10.0		103		90-110			
LCS Dup (B321543-BSD1)					Prepared & Analyzed: 10/29/22							
Chloride	10	1.0	0.56	mg/L	10.0		105		90-110	0.209	20	
Sulfate	10	1.0	0.55	mg/L	10.0		103		90-110	0.445	20	
Matrix Spike (B321543-MS1)		**Source: 22J3631-03**			Prepared & Analyzed: 10/29/22							
Chloride	520	10	5.6	mg/L	100	480	**42.9**	*	80-120			E, MS-07
Sulfate	150	10	5.5	mg/L	100	55	98.2		80-120			
Matrix Spike Dup (B321543-MSD1)		**Source: 22J3631-03**			Prepared & Analyzed: 10/29/22							
Chloride	520	10	5.6	mg/L	100	480	**41.8**	*	80-120	0.206	20	E, MS-07
Sulfate	150	10	5.5	mg/L	100	55	98.0		80-120	0.109	20	

Parent sample concentration is 4x greater than spike concentration, no quals

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321309 - SW-846 5030B												
Matrix Spike Dup (B321309-MSD1)	**Source: 22J3631-03**				Prepared & Analyzed: 10/27/22							
Tetrachloroethylene	174	1.0	0.19	µg/L	10.0	168	**61.9**	*	70-130	1.09	30	MS-19
Tetrahydrofuran	10.1	10	0.49	µg/L	10.0	ND	101		70-130	11.4	30	parent sample concentration is greater than 4x the spike concentration, no quals
Toluene	10.7	1.0	0.22	µg/L	10.0	ND	107		70-130	1.02	30	
1,2,3-Trichlorobenzene	8.74	5.0	0.30	µg/L	10.0	ND	87.4		70-130	1.96	30	
1,2,4-Trichlorobenzene	8.93	1.0	0.25	µg/L	10.0	ND	89.3		70-130	1.81	30	
1,3,5-Trichlorobenzene	8.95	1.0	0.21	µg/L	10.0	ND	89.5		70-130	1.22	30	
1,1,1-Trichloroethane	10.7	1.0	0.17	µg/L	10.0	ND	107		70-130	0.742	30	
1,1,2-Trichloroethane	10.1	1.0	0.18	µg/L	10.0	ND	101		70-130	2.09	30	
Trichloroethylene	40.6	1.0	0.19	µg/L	10.0	30.6	100		70-130	1.66	30	
Trichlorofluoromethane (Freon 11)	11.7	2.0	0.18	µg/L	10.0	ND	117		70-130	1.12	30	
1,2,3-Trichloropropane	9.98	2.0	0.28	µg/L	10.0	ND	99.8		70-130	2.57	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	1.0	0.23	µg/L	10.0	ND	115		70-130	2.91	30	
1,2,4-Trimethylbenzene	9.25	1.0	0.20	µg/L	10.0	ND	92.5		70-130	2.35	30	
1,3,5-Trimethylbenzene	10.3	1.0	0.11	µg/L	10.0	ND	103		70-130	0.675	30	
Vinyl Chloride	13.1	2.0	0.21	µg/L	10.0	1.35	117		70-130	1.85	30	
m+p Xylene	21.2	2.0	0.46	µg/L	20.0	ND	106		70-130	0.940	20	
o-Xylene	10.4	1.0	0.23	µg/L	10.0	ND	104		70-130	0.289	30	
Surrogate: 1,2-Dichloroethane-d4	*24.0*			µg/L	25.0		96.2		70-130			
Surrogate: Toluene-d8	*25.0*			µg/L	25.0		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*			µg/L	25.0		101		70-130			

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321309 - SW-846 5030B												
Matrix Spike (B321309-MS1)	**Source: 22J3631-03**				Prepared & Analyzed: 10/27/22							
1,4-Dioxane	78.4	50	21	µg/L	100	ND	78.4		70-130			
Ethylbenzene	10.7	1.0	0.21	µg/L	10.0	ND	107		70-130			
Hexachlorobutadiene	9.31	0.60	0.46	µg/L	10.0	ND	93.1		70-130			
2-Hexanone (MBK)	103	10	1.1	µg/L	100	ND	103		70-130			
Isopropylbenzene (Cumene)	10.4	1.0	0.11	µg/L	10.0	ND	104		70-130			
p-Isopropyltoluene (p-Cymene)	9.88	1.0	0.097	µg/L	10.0	ND	98.8		70-130			
Methyl Acetate	9.22	1.0	0.45	µg/L	10.0	ND	92.2		70-130			
Methyl tert-Butyl Ether (MTBE)	9.28	1.0	0.17	µg/L	10.0	ND	92.8		70-130			
Methyl Cyclohexane	10.0	1.0	0.24	µg/L	10.0	ND	100		70-130			
Methylene Chloride	11.1	5.0	0.23	µg/L	10.0	ND	111		70-130			
4-Methyl-2-pentanone (MIBK)	105	10	1.3	µg/L	100	ND	105		70-130			
Naphthalene	8.10	2.0	0.24	µg/L	10.0	ND	81.0		70-130			
n-Propylbenzene	10.5	1.0	0.086	µg/L	10.0	ND	105		70-130			
Styrene	10.3	1.0	0.11	µg/L	10.0	ND	103		70-130			
1,1,1,2-Tetrachloroethane	10.1	1.0	0.18	µg/L	10.0	ND	101		70-130			
1,1,2,2-Tetrachloroethane	9.40	0.50	0.13	µg/L	10.0	ND	94.0		70-130			parent sample concentration is greater than 4x spike conc, no quals
Tetrachloroethylene	172	1.0	0.19	µg/L	10.0	168	**43.1**	*	70-130			MS-19
Tetrahydrofuran	9.00	10	0.49	µg/L	10.0	ND	90.0		70-130			J
Toluene	10.8	1.0	0.22	µg/L	10.0	ND	108		70-130			
1,2,3-Trichlorobenzene	8.57	5.0	0.30	µg/L	10.0	ND	85.7		70-130			
1,2,4-Trichlorobenzene	8.77	1.0	0.25	µg/L	10.0	ND	87.7		70-130			
1,3,5-Trichlorobenzene	9.06	1.0	0.21	µg/L	10.0	ND	90.6		70-130			
1,1,1-Trichloroethane	10.8	1.0	0.17	µg/L	10.0	ND	108		70-130			
1,1,2-Trichloroethane	9.93	1.0	0.18	µg/L	10.0	ND	99.3		70-130			
Trichloroethylene	40.0	1.0	0.19	µg/L	10.0	30.6	93.6		70-130			
Trichlorofluoromethane (Freon 11)	11.6	2.0	0.18	µg/L	10.0	ND	116		70-130			
1,2,3-Trichloropropane	10.2	2.0	0.28	µg/L	10.0	ND	102		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	0.23	µg/L	10.0	ND	112		70-130			
1,2,4-Trimethylbenzene	9.47	1.0	0.20	µg/L	10.0	ND	94.7		70-130			
1,3,5-Trimethylbenzene	10.4	1.0	0.11	µg/L	10.0	ND	104		70-130			
Vinyl Chloride	12.8	2.0	0.21	µg/L	10.0	1.35	115		70-130			
m+p Xylene	21.4	2.0	0.46	µg/L	20.0	ND	107		70-130			
o-Xylene	10.4	1.0	0.23	µg/L	10.0	ND	104		70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.2*			µg/L	25.0		96.6		70-130			
Surrogate: Toluene-d8	*25.2*			µg/L	25.0		101		70-130			
Surrogate: 4-Bromofluorobenzene	*25.1*			µg/L	25.0		100		70-130			
Matrix Spike Dup (B321309-MSD1)	**Source: 22J3631-03**				Prepared & Analyzed: 10/27/22							
Acetone	107	50	2.0	µg/L	100	ND	107		70-130	0.755	30	
Acrylonitrile	10.3	5.0	0.55	µg/L	10.0	ND	103		70-130	7.22	30	
tert-Amyl Methyl Ether (TAME)	9.19	0.50	0.14	µg/L	10.0	ND	91.9		70-130	1.65	30	
Benzene	10.4	1.0	0.20	µg/L	10.0	ND	104		70-130	0.962	30	
Bromobenzene	9.80	1.0	0.15	µg/L	10.0	ND	98.0		70-130	0.102	30	
Bromochloromethane	11.2	1.0	0.31	µg/L	10.0	ND	112		70-130	2.72	30	
Bromodichloromethane	9.52	0.50	0.18	µg/L	10.0	ND	95.2		70-130	3.10	30	
Bromoform	8.69	1.0	0.38	µg/L	10.0	ND	86.9		70-130	2.09	30	
Bromomethane	6.79	2.0	1.5	µg/L	10.0	ND	**67.9**	*	70-130	28.8	30	UJ, MSL MS-07A
2-Butanone (MEK)	109	20	1.6	µg/L	100	ND	109		70-130	3.37	30	
tert-Butyl Alcohol (TBA)	91.2	20	4.7	µg/L	100	ND	91.2		70-130	0.274	30	

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321309 - SW-846 5030B												
LCS Dup (B321309-BSD1)					Prepared & Analyzed: 10/27/22							
Surrogate: 1,2-Dichloroethane-d4	*24.8*			µg/L	25.0		99.4		70-130			
Surrogate: Toluene-d8	*25.2*			µg/L	25.0		101		70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*			µg/L	25.0		99.0		70-130			
Matrix Spike (B321309-MS1)	**Source: 22J3631-03**				Prepared & Analyzed: 10/27/22							
Acetone	108	50	2.0	µg/L	100	ND	108		70-130			
Acrylonitrile	9.61	5.0	0.55	µg/L	10.0	ND	96.1		70-130			
tert-Amyl Methyl Ether (TAME)	9.04	0.50	0.14	µg/L	10.0	ND	90.4		70-130			
Benzene	10.4	1.0	0.20	µg/L	10.0	ND	104		70-130			
Bromobenzene	9.79	1.0	0.15	µg/L	10.0	ND	97.9		70-130			
Bromochloromethane	11.5	1.0	0.31	µg/L	10.0	ND	115		70-130			
Bromodichloromethane	9.82	0.50	0.18	µg/L	10.0	ND	98.2		70-130			
Bromoform	8.51	1.0	0.38	µg/L	10.0	ND	85.1		70-130			
Bromomethane	5.08	2.0	1.5	µg/L	10.0	ND	**50.8**	*	70-130	UJ, MSL		MS-07A
2-Butanone (MEK)	106	20	1.6	µg/L	100	ND	106		70-130			
tert-Butyl Alcohol (TBA)	91.0	20	4.7	µg/L	100	ND	91.0		70-130			
n-Butylbenzene	9.62	1.0	0.15	µg/L	10.0	ND	96.2		70-130			
sec-Butylbenzene	9.72	1.0	0.11	µg/L	10.0	ND	97.2		70-130			
tert-Butylbenzene	9.92	1.0	0.13	µg/L	10.0	ND	99.2		70-130			
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	0.15	µg/L	10.0	ND	101		70-130			
Carbon Disulfide	111	5.0	1.4	µg/L	100	ND	111		70-130			
Carbon Tetrachloride	10.6	5.0	0.16	µg/L	10.0	ND	106		70-130			
Chlorobenzene	11.0	1.0	0.11	µg/L	10.0	ND	110		70-130			
Chlorodibromomethane	9.87	0.50	0.22	µg/L	10.0	ND	98.7		70-130			
Chloroethane	11.8	2.0	0.32	µg/L	10.0	ND	118		70-130			V-20
Chloroform	9.95	2.0	0.17	µg/L	10.0	ND	99.5		70-130			
Chloromethane	9.18	2.0	0.52	µg/L	10.0	ND	91.8		70-130			
2-Chlorotoluene	10.2	1.0	0.11	µg/L	10.0	ND	102		70-130			
4-Chlorotoluene	10.4	1.0	0.12	µg/L	10.0	ND	104		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.51	5.0	0.80	µg/L	10.0	ND	75.1		70-130			V-05
1,2-Dibromoethane (EDB)	10.1	0.50	0.17	µg/L	10.0	ND	101		70-130			
Dibromomethane	10.8	1.0	0.35	µg/L	10.0	ND	108		70-130			
1,2-Dichlorobenzene	9.73	1.0	0.12	µg/L	10.0	ND	97.3		70-130			
1,3-Dichlorobenzene	9.52	1.0	0.12	µg/L	10.0	ND	95.2		70-130			
1,4-Dichlorobenzene	9.85	1.0	0.13	µg/L	10.0	ND	98.5		70-130			
trans-1,4-Dichloro-2-butene	7.06	2.0	1.6	µg/L	10.0	ND	70.6		70-130			
Dichlorodifluoromethane (Freon 12)	11.3	2.0	0.19	µg/L	10.0	ND	113		70-130			V-20
1,1-Dichloroethane	10.8	1.0	0.14	µg/L	10.0	ND	108		70-130			
1,2-Dichloroethane	10.7	1.0	0.31	µg/L	10.0	ND	107		70-130			
1,1-Dichloroethylene	11.5	1.0	0.14	µg/L	10.0	ND	115		70-130			
cis-1,2-Dichloroethylene	39.5	1.0	0.15	µg/L	10.0	31.0	85.4		70-130			
trans-1,2-Dichloroethylene	11.6	1.0	0.17	µg/L	10.0	0.450	112		70-130			
1,2-Dichloropropane	10.4	1.0	0.18	µg/L	10.0	ND	104		70-130			
1,3-Dichloropropane	10.2	0.50	0.13	µg/L	10.0	ND	102		70-130			
2,2-Dichloropropane	8.23	1.0	0.33	µg/L	10.0	ND	82.3		70-130			
1,1-Dichloropropene	10.7	2.0	0.15	µg/L	10.0	ND	107		70-130			
cis-1,3-Dichloropropene	9.00	0.50	0.16	µg/L	10.0	ND	90.0		70-130			
trans-1,3-Dichloropropene	8.82	0.50	0.17	µg/L	10.0	ND	88.2		70-130			
Diethyl Ether	10.5	2.0	0.18	µg/L	10.0	ND	105		70-130			
Diisopropyl Ether (DIPE)	10.7	0.50	0.13	µg/L	10.0	ND	107		70-130			

con-test®
A Pace Analytical® Laboratory

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

Project Location: Brighton, NY | Sample Description: | Work Order: 22J3631

Date Received: 10/26/2022

Field Sample #: 828120FB | Sampled: 10/25/2022 16:00

Sample ID: 22J3631-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Chloroform	18	2.0	0.17	µg/L	1	U, BL2	SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	10/27/22	10/27/22 13:16	MFF

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

EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride

22J3896-04[828120MW210012], B321546-MS1, B321546-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Nitrate as N

B321392-MS1, B321392-MSD1

SM21-23 2320B

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Alkalinity

22J3896-04[828120MW210012], B322302-MS2

PR-18

Headspace present in sample container.

Analyte & Samples(s) Qualified:

Alkalinity

22J3896-03[828120MW111I020], 22J3896-04[828120MW210012], B322302-MS2, B322302-MSD2

SW-846 8260D

Qualifications:

L-06

Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Vinyl Chloride

22J3896-04[828120MW210012], 22J3896-05[828120DUP2], B321428-BS1, B321428-BSD1, B321428-MS1, B321428-MSD1

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Vinyl Chloride

22J3896-04[828120MW210012], B321428-MS1, B321428-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

Naphthalene

B321428-MS1, B321428-MSD1

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

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
B321428-MS1

Bromomethane
B321428-MSD1

Carbon Disulfide
B321428-MSD1

Chloromethane
B321428-MS1

Dichlorodifluoromethane (Freon 12
B321428-MS1

trans-1,2-Dichloroethylene
B321428-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B321428-MS1

2,2-Dichloropropane
B321428-MS1

cis-1,2-Dichloroethylene
B321428-MS1

Tetrachloroethylene
B321428-MS1

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B321428 - SW-846 5030B													
Matrix Spike Dup (B321428-MSD1)	**Source: 22J3896-04**				Prepared & Analyzed: 10/28/22								
Carbon Disulfide	137	5.0	1.4	µg/L	100	ND	**137**	*	70-130	**39.1**	*	30	MS-23, R-06, high bias, sample ND, no quals, V-20
Carbon Tetrachloride	10.5	5.0	0.16	µg/L	10.0	ND	105		70-130	29.5		30	
Chlorobenzene	10.7	1.0	0.11	µg/L	10.0	ND	107		70-130	14.9		30	
Chlorodibromomethane	9.88	0.50	0.22	µg/L	10.0	ND	98.8		70-130	3.19		30	
Chloroethane	11.3	2.0	0.32	µg/L	10.0	ND	113		70-130	26.9		30	
Chloroform	9.98	2.0	0.17	µg/L	10.0	ND	99.8		70-130	17.4		30	
Chloromethane	9.47	2.0	0.52	µg/L	10.0	ND	94.7		70-130	**45.2**	*	30	R-06, sample ND, no quals
2-Chlorotoluene	10.3	1.0	0.11	µg/L	10.0	ND	103		70-130	25.9		30	
4-Chlorotoluene	10.6	1.0	0.12	µg/L	10.0	ND	106		70-130	18.4		30	
1,2-Dibromo-3-chloropropane (DBCP)	8.62	5.0	0.80	µg/L	10.0	ND	86.2		70-130	9.71		30	
1,2-Dibromoethane (EDB)	10.3	0.50	0.17	µg/L	10.0	ND	103		70-130	1.36		30	
Dibromomethane	10.2	1.0	0.35	µg/L	10.0	ND	102		70-130	2.05		30	
1,2-Dichlorobenzene	10.3	1.0	0.12	µg/L	10.0	ND	103		70-130	10.8		30	
1,3-Dichlorobenzene	10.5	1.0	0.12	µg/L	10.0	ND	105		70-130	18.5		30	
1,4-Dichlorobenzene	10.2	1.0	0.13	µg/L	10.0	ND	102		70-130	22.1		30	
trans-1,4-Dichloro-2-butene	8.77	2.0	1.6	µg/L	10.0	ND	87.7		70-130	20.7		30	
Dichlorodifluoromethane (Freon 12)	8.21	2.0	0.19	µg/L	10.0	ND	82.1		70-130	**36.8**	*	30	R-06, sample ND, no quals
1,1-Dichloroethane	9.70	1.0	0.14	µg/L	10.0	ND	97.0		70-130	24.5		30	
1,2-Dichloroethane	9.67	1.0	0.31	µg/L	10.0	ND	96.7		70-130	3.36		30	
1,1-Dichloroethylene	9.63	1.0	0.14	µg/L	10.0	ND	96.3		70-130	**33.3**	*	30	R-06, sample ND, no quals
cis-1,2-Dichloroethylene	24.7	1.0	0.15	µg/L	10.0	15.6	91.2		70-130	9.82		30	
trans-1,2-Dichloroethylene	13.1	1.0	0.17	µg/L	10.0	ND	**131**	*	70-130	**58.3**	*	30	MS-23, R-06, sample ND, no quals
1,2-Dichloropropane	10.3	1.0	0.18	µg/L	10.0	ND	103		70-130	15.3		30	
1,3-Dichloropropane	10.4	0.50	0.13	µg/L	10.0	ND	104		70-130	1.94		30	
2,2-Dichloropropane	8.15	1.0	0.33	µg/L	10.0	ND	81.5		70-130	25.1		30	
1,1-Dichloropropene	10.5	2.0	0.15	µg/L	10.0	ND	105		70-130	29.0		30	
cis-1,3-Dichloropropene	9.32	0.50	0.16	µg/L	10.0	ND	93.2		70-130	9.56		30	
trans-1,3-Dichloropropene	9.07	0.50	0.17	µg/L	10.0	ND	90.7		70-130	0.553		30	
Diethyl Ether	9.73	2.0	0.18	µg/L	10.0	ND	97.3		70-130	5.38		30	
Diisopropyl Ether (DIPE)	9.96	0.50	0.13	µg/L	10.0	ND	99.6		70-130	8.81		30	
1,4-Dioxane	96.2	50	21	µg/L	100	ND	96.2		70-130	26.8		30	
Ethylbenzene	11.4	1.0	0.21	µg/L	10.0	ND	114		70-130	26.4		30	
Hexachlorobutadiene	9.98	0.60	0.46	µg/L	10.0	ND	99.8		70-130	22.6		30	
2-Hexanone (MBK)	98.9	10	1.1	µg/L	100	ND	98.9		70-130	18.6		30	sample ND, no quals
Isopropylbenzene (Cumene)	11.2	1.0	0.11	µg/L	10.0	ND	112		70-130	**32.2**	*	30	R-06
p-Isopropyltoluene (p-Cymene)	10.6	1.0	0.097	µg/L	10.0	ND	106		70-130	**31.3**	*	30	R-06, sample ND, no quals
Methyl Acetate	12.2	1.0	0.45	µg/L	10.0	ND	122		70-130	3.39		30	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	0.17	µg/L	10.0	ND	102		70-130	3.45		30	V-06
Methyl Cyclohexane	11.4	1.0	0.24	µg/L	10.0	ND	114		70-130	**38.3**	*	30	R-06, sample ND, no quals
Methylene Chloride	9.63	5.0	0.23	µg/L	10.0	ND	96.3		70-130	19.4		30	
4-Methyl-2-pentanone (MIBK)	97.2	10	1.3	µg/L	100	ND	97.2		70-130	17.1		30	sample ND, no quals
Naphthalene	14.4	2.0	0.24	µg/L	10.0	ND	**144**	*	70-130	**50.6**	*	30	MS-15, R-06
n-Propylbenzene	10.8	1.0	0.086	µg/L	10.0	ND	108		70-130	**32.0**	*	30	R-06, sample ND, no quals
Styrene	11.1	1.0	0.11	µg/L	10.0	ND	111		70-130	19.1		30	
1,1,1,2-Tetrachloroethane	10.9	1.0	0.18	µg/L	10.0	ND	109		70-130	11.9		30	
1,1,2,2-Tetrachloroethane	10.6	0.50	0.13	µg/L	10.0	ND	106		70-130	4.42		30	
Tetrachloroethylene	59.5	1.0	0.19	µg/L	10.0	50.4	91.4		70-130	12.2		30	
Tetrahydrofuran	9.12	10	0.49	µg/L	10.0	ND	91.2		70-130	9.40		30	J
Toluene	10.2	1.0	0.22	µg/L	10.0	ND	102		70-130	23.7		30	

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B321428 - SW-846 5030B													
Matrix Spike (B321428-MS1)	**Source: 22J3896-04**				Prepared & Analyzed: 10/28/22								
p-Isopropyltoluene (p-Cymene)	7.77	1.0	0.097	µg/L	10.0	ND	77.7		70-130				R-06
Methyl Acetate	12.6	1.0	0.45	µg/L	10.0	ND	126		70-130				
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	0.17	µg/L	10.0	ND	106		70-130				V-06
Methyl Cyclohexane	7.76	1.0	0.24	µg/L	10.0	ND	77.6		70-130				R-06
Methylene Chloride	7.93	5.0	0.23	µg/L	10.0	ND	79.3		70-130				
4-Methyl-2-pentanone (MIBK)	115	10	1.3	µg/L	100	ND	115		70-130				
Naphthalene	24.1	2.0	0.24	µg/L	10.0	ND	**241**	*	70-130	sample ND, no quals			MS-15, R-06
n-Propylbenzene	7.82	1.0	0.086	µg/L	10.0	ND	78.2		70-130				R-06
Styrene	9.14	1.0	0.11	µg/L	10.0	ND	91.4		70-130				
1,1,1,2-Tetrachloroethane	9.69	1.0	0.18	µg/L	10.0	ND	96.9		70-130				
1,1,2,2-Tetrachloroethane	11.1	0.50	0.13	µg/L	10.0	ND	111		70-130				
Tetrachloroethylene	52.7	1.0	0.19	µg/L	10.0	50.4	**23.1**	*	70-130	parent sample concentration is greater than 4x spike concentration, no quals			MS-24
Tetrahydrofuran	10.0	10	0.49	µg/L	10.0	ND	100		70-130				
Toluene	8.01	1.0	0.22	µg/L	10.0	ND	80.1		70-130				
1,2,3-Trichlorobenzene	6.85	5.0	0.30	µg/L	10.0	ND	**68.5**	*	70-130	UJ, MSL			MS-24
1,2,4-Trichlorobenzene	7.15	1.0	0.25	µg/L	10.0	ND	71.5		70-130				
1,3,5-Trichlorobenzene	7.81	1.0	0.21	µg/L	10.0	ND	78.1		70-130				
1,1,1-Trichloroethane	8.00	1.0	0.17	µg/L	10.0	ND	80.0		70-130				
1,1,2-Trichloroethane	10.9	1.0	0.18	µg/L	10.0	ND	109		70-130				
Trichloroethylene	17.5	1.0	0.19	µg/L	10.0	9.80	77.1		70-130				
Trichlorofluoromethane (Freon 11)	7.42	2.0	0.18	µg/L	10.0	ND	74.2		70-130				R-06
1,2,3-Trichloropropane	11.3	2.0	0.28	µg/L	10.0	ND	113		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.62	1.0	0.23	µg/L	10.0	ND	86.2		70-130				R-06
1,2,4-Trimethylbenzene	8.16	1.0	0.20	µg/L	10.0	ND	81.6		70-130				
1,3,5-Trimethylbenzene	8.34	1.0	0.11	µg/L	10.0	ND	83.4		70-130				
Vinyl Chloride	20.1	2.0	0.21	µg/L	10.0	3.79	**163**	*	70-130	J+, MSH			L-06, MS-12, R-06, V-06
m+p Xylene	17.1	2.0	0.46	µg/L	20.0	ND	85.6		70-130				R-06
o-Xylene	8.91	1.0	0.23	µg/L	10.0	ND	89.1		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.5*			µg/L	25.0		97.9		70-130				
Surrogate: Toluene-d8	*24.4*			µg/L	25.0		97.4		70-130				
Surrogate: 4-Bromofluorobenzene	*25.4*			µg/L	25.0		102		70-130				
Matrix Spike Dup (B321428-MSD1)	**Source: 22J3896-04**				Prepared & Analyzed: 10/28/22								
Acetone	88.5	50	2.0	µg/L	100	ND	88.5		70-130	18.9		30	
Acrylonitrile	8.43	5.0	0.55	µg/L	10.0	ND	84.3		70-130	7.31		30	V-05
tert-Amyl Methyl Ether (TAME)	9.57	0.50	0.14	µg/L	10.0	ND	95.7		70-130	0.729		30	
Benzene	9.32	1.0	0.20	µg/L	10.0	ND	93.2		70-130	21.2		30	
Bromobenzene	10.9	1.0	0.15	µg/L	10.0	ND	109		70-130	10.2		30	
Bromochloromethane	9.50	1.0	0.31	µg/L	10.0	ND	95.0		70-130	4.96		30	
Bromodichloromethane	9.80	0.50	0.18	µg/L	10.0	ND	98.0		70-130	9.40		30	
Bromoform	9.62	1.0	0.38	µg/L	10.0	ND	96.2		70-130	5.16		30	
Bromomethane	14.0	2.0	1.5	µg/L	10.0	ND	**140**	*	70-130	**32.3**	*	30	sample result ND, no quals MS-23, R-06, V-20
2-Butanone (MEK)	91.7	20	1.6	µg/L	100	ND	91.7		70-130	20.6		30	
tert-Butyl Alcohol (TBA)	84.7	20	4.7	µg/L	100	ND	84.7		70-130	20.0		30	
n-Butylbenzene	10.5	1.0	0.15	µg/L	10.0	ND	105		70-130	**35.2**	*	30	sample ND, no quals R-06
sec-Butylbenzene	10.4	1.0	0.11	µg/L	10.0	ND	104		70-130	**31.5**	*	30	R-06
tert-Butylbenzene	10.9	1.0	0.13	µg/L	10.0	ND	109		70-130	29.1		30	sample ND, no quals
tert-Butyl Ethyl Ether (TBEE)	10.2	0.50	0.15	µg/L	10.0	ND	102		70-130	4.21		30	

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321428 - SW-846 5030B												
Matrix Spike (B321428-MS1)	**Source: 22J3896-04**				Prepared & Analyzed: 10/28/22							
Acetone	107	50	2.0	µg/L	100	ND	107		70-130			
Acrylonitrile	9.07	5.0	0.55	µg/L	10.0	ND	90.7		70-130			V-05
tert-Amyl Methyl Ether (TAME)	9.64	0.50	0.14	µg/L	10.0	ND	96.4		70-130			
Benzene	7.53	1.0	0.20	µg/L	10.0	ND	75.3		70-130			
Bromobenzene	9.86	1.0	0.15	µg/L	10.0	ND	98.6		70-130			
Bromochloromethane	9.04	1.0	0.31	µg/L	10.0	ND	90.4		70-130			
Bromodichloromethane	8.92	0.50	0.18	µg/L	10.0	ND	89.2		70-130			
Bromoform	10.1	1.0	0.38	µg/L	10.0	ND	101		70-130			
Bromomethane	10.1	2.0	1.5	µg/L	10.0	ND	101		70-130			R-06, V-20
2-Butanone (MEK)	113	20	1.6	µg/L	100	ND	113		70-130			
tert-Butyl Alcohol (TBA)	103	20	4.7	µg/L	100	ND	103		70-130			
n-Butylbenzene	7.37	1.0	0.15	µg/L	10.0	ND	73.7		70-130			R-06
sec-Butylbenzene	7.54	1.0	0.11	µg/L	10.0	ND	75.4		70-130			R-06
tert-Butylbenzene	8.12	1.0	0.13	µg/L	10.0	ND	81.2		70-130			
tert-Butyl Ethyl Ether (TBEE)	9.77	0.50	0.15	µg/L	10.0	ND	97.7		70-130			
Carbon Disulfide	92.4	5.0	1.4	µg/L	100	ND	92.4		70-130			R-06, V-20
Carbon Tetrachloride	7.82	5.0	0.16	µg/L	10.0	ND	78.2		70-130			
Chlorobenzene	9.19	1.0	0.11	µg/L	10.0	ND	91.9		70-130			
Chlorodibromomethane	9.57	0.50	0.22	µg/L	10.0	ND	95.7		70-130			
Chloroethane	8.64	2.0	0.32	µg/L	10.0	ND	86.4		70-130			
Chloroform	8.38	2.0	0.17	µg/L	10.0	ND	83.8		70-130			
Chloromethane	5.98	2.0	0.52	µg/L	10.0	ND	**59.8**	*	70-130	UJ, MSL		MS-23, R-06
2-Chlorotoluene	7.97	1.0	0.11	µg/L	10.0	ND	79.7		70-130			
4-Chlorotoluene	8.82	1.0	0.12	µg/L	10.0	ND	88.2		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.50	5.0	0.80	µg/L	10.0	ND	95.0		70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	0.17	µg/L	10.0	ND	104		70-130			
Dibromomethane	10.4	1.0	0.35	µg/L	10.0	ND	104		70-130			
1,2-Dichlorobenzene	9.26	1.0	0.12	µg/L	10.0	ND	92.6		70-130			
1,3-Dichlorobenzene	8.70	1.0	0.12	µg/L	10.0	ND	87.0		70-130			
1,4-Dichlorobenzene	8.17	1.0	0.13	µg/L	10.0	ND	81.7		70-130			
trans-1,4-Dichloro-2-butene	10.8	2.0	1.6	µg/L	10.0	ND	108		70-130			
Dichlorodifluoromethane (Freon 12)	5.66	2.0	0.19	µg/L	10.0	ND	**56.6**	*	70-130	UJ, MSL		MS-23, R-06
1,1-Dichloroethane	7.58	1.0	0.14	µg/L	10.0	ND	75.8		70-130			
1,2-Dichloroethane	9.35	1.0	0.31	µg/L	10.0	ND	93.5		70-130			
1,1-Dichloroethylene	6.88	1.0	0.14	µg/L	10.0	ND	**68.8**	*	70-130	UJ, MSL		MS-23, R-06
cis-1,2-Dichloroethylene	22.4	1.0	0.15	µg/L	10.0	15.6	**68.1**	*	70-130	J-, MSL		MS-24
trans-1,2-Dichloroethylene	7.18	1.0	0.17	µg/L	10.0	ND	71.8		70-130			R-06
1,2-Dichloropropane	8.82	1.0	0.18	µg/L	10.0	ND	88.2		70-130			
1,3-Dichloropropane	10.2	0.50	0.13	µg/L	10.0	ND	102		70-130			
2,2-Dichloropropane	6.33	1.0	0.33	µg/L	10.0	ND	**63.3**	*	70-130	UJ, MSL		MS-24
1,1-Dichloropropene	7.81	2.0	0.15	µg/L	10.0	ND	78.1		70-130			
cis-1,3-Dichloropropene	8.47	0.50	0.16	µg/L	10.0	ND	84.7		70-130			
trans-1,3-Dichloropropene	9.02	0.50	0.17	µg/L	10.0	ND	90.2		70-130			
Diethyl Ether	9.22	2.0	0.18	µg/L	10.0	ND	92.2		70-130			
Diisopropyl Ether (DIPE)	9.12	0.50	0.13	µg/L	10.0	ND	91.2		70-130			
1,4-Dioxane	126	50	21	µg/L	100	ND	126		70-130			
Ethylbenzene	8.73	1.0	0.21	µg/L	10.0	ND	87.3		70-130			
Hexachlorobutadiene	7.95	0.60	0.46	µg/L	10.0	ND	79.5		70-130			
2-Hexanone (MBK)	119	10	1.1	µg/L	100	ND	119		70-130			
Isopropylbenzene (Cumene)	8.11	1.0	0.11	µg/L	10.0	ND	81.1		70-130			R-06

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B321428 - SW-846 5030B													
LCS Dup (B321428-BSD1)					Prepared & Analyzed: 10/28/22								
1,1-Dichloroethane	11.0	1.0	0.14	µg/L	10.0		110		70-130	5.52	25		
1,2-Dichloroethane	9.42	1.0	0.31	µg/L	10.0		94.2		70-130	2.91	25		
1,1-Dichloroethylene	7.72	1.0	0.14	µg/L	10.0		77.2		70-130	1.04	25		
cis-1,2-Dichloroethylene	8.88	1.0	0.15	µg/L	10.0		88.8		70-130	6.27	25		
trans-1,2-Dichloroethylene	10.7	1.0	0.17	µg/L	10.0		107		70-130	5.06	25		
1,2-Dichloropropane	9.14	1.0	0.18	µg/L	10.0		91.4		70-130	0.659	25		
1,3-Dichloropropane	9.44	0.50	0.13	µg/L	10.0		94.4		70-130	3.34	25		
2,2-Dichloropropane	8.74	1.0	0.33	µg/L	10.0		87.4		40-130	1.96	25		†
1,1-Dichloropropene	8.84	2.0	0.15	µg/L	10.0		88.4		70-130	0.451	25		
cis-1,3-Dichloropropene	9.39	0.50	0.16	µg/L	10.0		93.9		70-130	7.17	25		
trans-1,3-Dichloropropene	9.08	0.50	0.17	µg/L	10.0		90.8		70-130	2.79	25		
Diethyl Ether	8.26	2.0	0.18	µg/L	10.0		82.6		70-130	0.121	25		
Diisopropyl Ether (DIPE)	9.15	0.50	0.13	µg/L	10.0		91.5		70-130	2.55	25		
1,4-Dioxane	83.1	50	21	µg/L	100		83.1		40-130	5.03	50		† ‡
Ethylbenzene	10.2	1.0	0.21	µg/L	10.0		102		70-130	2.68	25		
Hexachlorobutadiene	9.83	0.60	0.46	µg/L	10.0		98.3		70-130	5.92	25		
2-Hexanone (MBK)	96.7	10	1.1	µg/L	100		96.7		70-160	5.48	25		†
Isopropylbenzene (Cumene)	10.0	1.0	0.11	µg/L	10.0		100		70-130	2.63	25		
p-Isopropyltoluene (p-Cymene)	9.73	1.0	0.097	µg/L	10.0		97.3		70-130	1.12	25		
Methyl Acetate	12.4	1.0	0.45	µg/L	10.0		124		70-130	2.53	25		
Methyl tert-Butyl Ether (MTBE)	12.5	1.0	0.17	µg/L	10.0		125		70-130	3.75	25	V-06	
Methyl Cyclohexane	10.2	1.0	0.24	µg/L	10.0		102		70-130	2.89	25		
Methylene Chloride	8.30	5.0	0.23	µg/L	10.0		83.0		70-130	8.02	25		
4-Methyl-2-pentanone (MIBK)	91.4	10	1.3	µg/L	100		91.4		70-160	1.74	25		†
Naphthalene	9.49	2.0	0.24	µg/L	10.0		94.9		40-130	0.953	25		†
n-Propylbenzene	9.82	1.0	0.086	µg/L	10.0		98.2		70-130	1.13	25		
Styrene	10.5	1.0	0.11	µg/L	10.0		105		70-130	2.13	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	0.18	µg/L	10.0		104		70-130	2.04	25		
1,1,2,2-Tetrachloroethane	10.0	0.50	0.13	µg/L	10.0		100		70-130	5.31	25		
Tetrachloroethylene	9.75	1.0	0.19	µg/L	10.0		97.5		70-130	1.34	25		
Tetrahydrofuran	9.33	10	0.49	µg/L	10.0		93.3		70-130	9.19	25	J	
Toluene	9.08	1.0	0.22	µg/L	10.0		90.8		70-130	3.25	25		
1,2,3-Trichlorobenzene	9.97	5.0	0.30	µg/L	10.0		99.7		70-130	0.100	25		
1,2,4-Trichlorobenzene	9.59	1.0	0.25	µg/L	10.0		95.9		70-130	1.04	25		
1,3,5-Trichlorobenzene	9.96	1.0	0.21	µg/L	10.0		99.6		70-130	2.77	25		
1,1,1-Trichloroethane	9.08	1.0	0.17	µg/L	10.0		90.8		70-130	0.659	25		
1,1,2-Trichloroethane	9.89	1.0	0.18	µg/L	10.0		98.9		70-130	3.18	25		
Trichloroethylene	9.94	1.0	0.19	µg/L	10.0		99.4		70-130	2.86	25		
Trichlorofluoromethane (Freon 11)	8.63	2.0	0.18	µg/L	10.0		86.3		70-130	0.931	25		
1,2,3-Trichloropropane	9.94	2.0	0.28	µg/L	10.0		99.4		70-130	4.53	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	0.23	µg/L	10.0		108		70-130	0.465	25		
1,2,4-Trimethylbenzene	9.48	1.0	0.20	µg/L	10.0		94.8		70-130	2.50	25		
1,3,5-Trimethylbenzene	10.3	1.0	0.11	µg/L	10.0		103		70-130	1.37	25		
Vinyl Chloride	20.8	2.0	0.21	µg/L	10.0		**208**	*	40-160	1.24	25	L-06, V-06 J+, LCSH	†
m+p Xylene	20.3	2.0	0.46	µg/L	20.0		101		70-130	2.90	25		
o-Xylene	9.97	1.0	0.23	µg/L	10.0		99.7		70-130	0.503	25		
Surrogate: 1,2-Dichloroethane-d4	*24.1*			µg/L	25.0		96.4		70-130				
Surrogate: Toluene-d8	*24.2*			µg/L	25.0		96.6		70-130				
Surrogate: 4-Bromofluorobenzene	*26.0*			µg/L	25.0		104		70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B321428 - SW-846 5030B													
LCS (B321428-BS1)					Prepared & Analyzed: 10/28/22								
1,3,5-Trichlorobenzene	10.2	1.0	0.21	µg/L	10.0		102		70-130				
1,1,1-Trichloroethane	9.14	1.0	0.17	µg/L	10.0		91.4		70-130				
1,1,2-Trichloroethane	9.58	1.0	0.18	µg/L	10.0		95.8		70-130				
Trichloroethylene	9.66	1.0	0.19	µg/L	10.0		96.6		70-130				
Trichlorofluoromethane (Freon 11)	8.55	2.0	0.18	µg/L	10.0		85.5		70-130				
1,2,3-Trichloropropane	9.50	2.0	0.28	µg/L	10.0		95.0		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	0.23	µg/L	10.0		107		70-130				
1,2,4-Trimethylbenzene	9.72	1.0	0.20	µg/L	10.0		97.2		70-130				
1,3,5-Trimethylbenzene	10.1	1.0	0.11	µg/L	10.0		101		70-130				
Vinyl Chloride	21.1	2.0	0.21	µg/L	10.0		**211**	*	40-160	J+, LCSH		L-06, V-06	†
m+p Xylene	19.7	2.0	0.46	µg/L	20.0		98.6		70-130				
o-Xylene	9.92	1.0	0.23	µg/L	10.0		99.2		70-130				
Surrogate: 1,2-Dichloroethane-d4	*23.6*			µg/L	25.0		94.6		70-130				
Surrogate: Toluene-d8	*23.6*			µg/L	25.0		94.4		70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*			µg/L	25.0		100		70-130				
LCS Dup (B321428-BSD1)					Prepared & Analyzed: 10/28/22								
Acetone	85.2	50	2.0	µg/L	100		85.2		70-160	5.18	25		†
Acrylonitrile	7.65	5.0	0.55	µg/L	10.0		76.5		70-130	2.65	25	V-05	
tert-Amyl Methyl Ether (TAME)	8.97	0.50	0.14	µg/L	10.0		89.7		70-130	1.80	25		
Benzene	8.25	1.0	0.20	µg/L	10.0		82.5		70-130	0.852	25		
Bromobenzene	10.6	1.0	0.15	µg/L	10.0		106		70-130	2.97	25		
Bromochloromethane	8.71	1.0	0.31	µg/L	10.0		87.1		70-130	3.27	25		
Bromodichloromethane	9.20	0.50	0.18	µg/L	10.0		92.0		70-130	0.866	25		
Bromoform	9.61	1.0	0.38	µg/L	10.0		96.1		70-130	4.36	25		
Bromomethane	12.8	2.0	1.5	µg/L	10.0		128		40-160	6.85	25	V-20	†
2-Butanone (MEK)	90.5	20	1.6	µg/L	100		90.5		40-160	1.82	25		†
tert-Butyl Alcohol (TBA)	84.0	20	4.7	µg/L	100		84.0		40-160	8.71	25		†
n-Butylbenzene	9.64	1.0	0.15	µg/L	10.0		96.4		70-130	2.66	25		
sec-Butylbenzene	9.36	1.0	0.11	µg/L	10.0		93.6		70-130	4.90	25		
tert-Butylbenzene	9.83	1.0	0.13	µg/L	10.0		98.3		70-130	2.91	25		
tert-Butyl Ethyl Ether (TBEE)	9.52	0.50	0.15	µg/L	10.0		95.2		70-130	1.80	25		
Carbon Disulfide	117	5.0	1.4	µg/L	100		117		70-130	2.81	25	V-20	
Carbon Tetrachloride	9.16	5.0	0.16	µg/L	10.0		91.6		70-130	0.218	25		
Chlorobenzene	10.0	1.0	0.11	µg/L	10.0		100		70-130	1.81	25		
Chlorodibromomethane	9.72	0.50	0.22	µg/L	10.0		97.2		70-130	2.50	25		
Chloroethane	9.22	2.0	0.32	µg/L	10.0		92.2		70-130	1.75	25		
Chloroform	9.16	2.0	0.17	µg/L	10.0		91.6		70-130	2.32	25		
Chloromethane	10.1	2.0	0.52	µg/L	10.0		101		40-160	0.798	25		†
2-Chlorotoluene	9.73	1.0	0.11	µg/L	10.0		97.3		70-130	5.06	25		
4-Chlorotoluene	9.83	1.0	0.12	µg/L	10.0		98.3		70-130	1.33	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.62	5.0	0.80	µg/L	10.0		96.2		70-130	1.78	25		
1,2-Dibromoethane (EDB)	9.65	0.50	0.17	µg/L	10.0		96.5		70-130	2.94	25		
Dibromomethane	9.49	1.0	0.35	µg/L	10.0		94.9		70-130	1.88	25		
1,2-Dichlorobenzene	9.73	1.0	0.12	µg/L	10.0		97.3		70-130	3.04	25		
1,3-Dichlorobenzene	9.78	1.0	0.12	µg/L	10.0		97.8		70-130	2.62	25		
1,4-Dichlorobenzene	9.52	1.0	0.13	µg/L	10.0		95.2		70-130	0.527	25		
trans-1,4-Dichloro-2-butene	9.76	2.0	1.6	µg/L	10.0		97.6		70-130	1.76	25		
Dichlorodifluoromethane (Freon 12)	7.93	2.0	0.19	µg/L	10.0		79.3		40-160	0.887	25		†

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B321392 - EPA 300.0												
Blank (B321392-BLK1)					Prepared & Analyzed: 10/27/22							
Nitrate as N	ND	0.10	0.042	mg/L								
LCS (B321392-BS1)					Prepared & Analyzed: 10/27/22							
Nitrate as N	0.94	0.10	0.042	mg/L	1.00		93.5		90-110			
LCS Dup (B321392-BSD1)					Prepared & Analyzed: 10/27/22							
Nitrate as N	0.93	0.10	0.042	mg/L	1.00		93.0		90-110	0.525	20	
Matrix Spike (B321392-MS1)		**Source: 22J3896-04**			Prepared & Analyzed: 10/27/22							
Nitrate as N	0.90	0.10	0.042	mg/L	1.00	0.65	**25.2**	*	80-120	outside of scope		MS-09
Matrix Spike Dup (B321392-MSD1)		**Source: 22J3896-04**			Prepared & Analyzed: 10/27/22							
Nitrate as N	0.97	0.10	0.042	mg/L	1.00	0.65	**32.4**	*	80-120	7.75	20	MS-09
Batch B321420 - SM21-23 4500S-F												
Blank (B321420-BLK1)					Prepared & Analyzed: 10/28/22							
Sulfide	ND	2.0	1.1	mg/L								
LCS (B321420-BS1)					Prepared & Analyzed: 10/28/22							
Sulfide	8.8	2.0	1.1	mg/L	10.0		88.0		81-117			
Batch B321546 - EPA 300.0												
Blank (B321546-BLK1)					Prepared & Analyzed: 10/29/22							
Chloride	ND	1.0	0.56	mg/L								
Sulfate	ND	1.0	0.55	mg/L								
LCS (B321546-BS1)					Prepared & Analyzed: 10/29/22							
Chloride	10	1.0	0.56	mg/L	10.0		104		90-110			
Sulfate	10	1.0	0.55	mg/L	10.0		102		90-110			
LCS Dup (B321546-BSD1)					Prepared & Analyzed: 10/30/22							
Chloride	10	1.0	0.56	mg/L	10.0		104		90-110	0.193	20	
Sulfate	10	1.0	0.55	mg/L	10.0		102		90-110	0.218	20	
Matrix Spike (B321546-MS1)		**Source: 22J3896-04**			Prepared & Analyzed: 10/30/22							
Chloride	290	10	5.6	mg/L	100	210	**77.6**	*	80-120	outside of scope		MS-07
Sulfate	150	10	5.5	mg/L	100	54	94.7		80-120			
Matrix Spike Dup (B321546-MSD1)		**Source: 22J3896-04**			Prepared & Analyzed: 10/30/22							
Chloride	290	10	5.6	mg/L	100	210	**77.6**	*	80-120	0.0188	20	MS-07
Sulfate	150	10	5.5	mg/L	100	54	95.2		80-120	0.302	20	

con-test®
A Pace Analytical® Laboratory

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-23 2320B

Qualifications:

PR-18

Headspace present in sample container.

Analyte & Samples(s) Qualified:

Alkalinity
22J4221-01[828120MW09008], 22J4221-02[828120EW01026]

SM21-23 4500S-F

Qualifications:

SM-01

Sample container does not satisfy method specifications.

Analyte & Samples(s) Qualified:

Sulfide
22J4221-01[828120MW09008], 22J4221-02[828120EW01026]

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B321735-BS1, B321735-BSD1, S078754-CCV1

Methyl Acetate
B321735-BS1, B321735-BSD1, S078754-CCV1

Vinyl Chloride
B321735-BS1, B321735-BSD1, S078754-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

outside of scope

1,1,2-Trichloro-1,2,2-trifluoroethan
B321735-BS1, B321735-BSD1, S078754-CCV1

Bromomethane
B321735-BS1, B321735-BSD1, S078754-CCV1

Carbon Disulfide
B321735-BS1, B321735-BSD1, S078754-CCV1

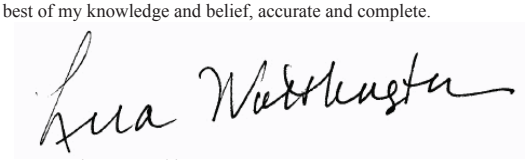
Methyl Acetate
B321735-BS1, B321735-BSD1, S078754-CCV1

trans-1,2-Dichloroethylene
B321735-BS1, B321735-BSD1, S078754-CCV1

Vinyl Chloride
B321735-BS1, B321735-BSD1, S078754-CCV1

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B321735 - SW-846 5030B													
LCS Dup (B321735-BSD1)					Prepared: 11/01/22 Analyzed: 11/02/22								
1,1-Dichloroethane	8.95	1.0	0.14	µg/L	10.0		89.5		70-130	6.17	25		
1,2-Dichloroethane	9.42	1.0	0.31	µg/L	10.0		94.2		70-130	4.46	25		
1,1-Dichloroethylene	9.24	1.0	0.14	µg/L	10.0		92.4		70-130	6.59	25		
cis-1,2-Dichloroethylene	9.14	1.0	0.15	µg/L	10.0		91.4		70-130	5.12	25		
trans-1,2-Dichloroethylene	12.9	1.0	0.17	µg/L	10.0		129		70-130	1.96	25	V-20	
1,2-Dichloropropane	9.08	1.0	0.18	µg/L	10.0		90.8		70-130	5.05	25		
1,3-Dichloropropane	9.56	0.50	0.13	µg/L	10.0		95.6		70-130	0.937	25		
2,2-Dichloropropane	7.73	1.0	0.33	µg/L	10.0		77.3		40-130	4.67	25		†
1,1-Dichloropropene	9.46	2.0	0.15	µg/L	10.0		94.6		70-130	3.33	25		
cis-1,3-Dichloropropene	8.79	0.50	0.16	µg/L	10.0		87.9		70-130	3.79	25		
trans-1,3-Dichloropropene	8.99	0.50	0.17	µg/L	10.0		89.9		70-130	1.23	25		
Diethyl Ether	9.71	2.0	0.18	µg/L	10.0		97.1		70-130	7.53	25		
Diisopropyl Ether (DIPE)	9.59	0.50	0.13	µg/L	10.0		95.9		70-130	2.57	25		
1,4-Dioxane	78.8	50	21	µg/L	100		78.8		40-130	5.32	50		† ‡
Ethylbenzene	9.95	1.0	0.21	µg/L	10.0		99.5		70-130	0.701	25		
Hexachlorobutadiene	9.27	0.60	0.46	µg/L	10.0		92.7		70-130	4.41	25		
2-Hexanone (MBK)	99.6	10	1.1	µg/L	100		99.6		70-160	4.83	25		†
Isopropylbenzene (Cumene)	9.65	1.0	0.11	µg/L	10.0		96.5		70-130	3.86	25		
p-Isopropyltoluene (p-Cymene)	9.14	1.0	0.097	µg/L	10.0		91.4		70-130	0.549	25	sample results ND, no quals	
Methyl Acetate	15.2	1.0	0.45	µg/L	10.0		**152**	*	70-130	12.0	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	0.17	µg/L	10.0		106		70-130	5.90	25		
Methyl Cyclohexane	9.94	1.0	0.24	µg/L	10.0		99.4		70-130	0.502	25		
Methylene Chloride	9.72	5.0	0.23	µg/L	10.0		97.2		70-130	1.23	25		
4-Methyl-2-pentanone (MIBK)	94.6	10	1.3	µg/L	100		94.6		70-160	0.625	25		†
Naphthalene	9.16	2.0	0.24	µg/L	10.0		91.6		40-130	3.43	25		†
n-Propylbenzene	9.51	1.0	0.086	µg/L	10.0		95.1		70-130	1.15	25		
Styrene	9.86	1.0	0.11	µg/L	10.0		98.6		70-130	0.506	25		
1,1,1,2-Tetrachloroethane	10.1	1.0	0.18	µg/L	10.0		101		70-130	0.798	25		
1,1,2,2-Tetrachloroethane	9.04	0.50	0.13	µg/L	10.0		90.4		70-130	1.65	25		
Tetrachloroethylene	9.64	1.0	0.19	µg/L	10.0		96.4		70-130	4.16	25		
Tetrahydrofuran	9.82	10	0.49	µg/L	10.0		98.2		70-130	4.37	25	J	
Toluene	9.34	1.0	0.22	µg/L	10.0		93.4		70-130	1.17	25		
1,2,3-Trichlorobenzene	9.22	5.0	0.30	µg/L	10.0		92.2		70-130	4.21	25		
1,2,4-Trichlorobenzene	8.58	1.0	0.25	µg/L	10.0		85.8		70-130	2.72	25		
1,3,5-Trichlorobenzene	8.82	1.0	0.21	µg/L	10.0		88.2		70-130	1.80	25		
1,1,1-Trichloroethane	9.83	1.0	0.17	µg/L	10.0		98.3		70-130	4.38	25		
1,1,2-Trichloroethane	9.86	1.0	0.18	µg/L	10.0		98.6		70-130	1.02	25		
Trichloroethylene	10.4	1.0	0.19	µg/L	10.0		104		70-130	3.11	25		
Trichlorofluoromethane (Freon 11)	10.3	2.0	0.18	µg/L	10.0		103		70-130	5.74	25		
1,2,3-Trichloropropane	9.28	2.0	0.28	µg/L	10.0		92.8		70-130	1.50	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4	1.0	0.23	µg/L	10.0		124		70-130	1.44	25	V-20	
1,2,4-Trimethylbenzene	9.27	1.0	0.20	µg/L	10.0		92.7		70-130	2.84	25		
1,3,5-Trimethylbenzene	9.86	1.0	0.11	µg/L	10.0		98.6		70-130	1.31	25		
Vinyl Chloride	22.6	2.0	0.21	µg/L	10.0		**226**	*	40-160	6.39	25	L-02, V-20	†
m+p Xylene	19.8	2.0	0.46	µg/L	20.0		99.0		70-130	1.60	25	sample results ND no quals	
o-Xylene	9.87	1.0	0.23	µg/L	10.0		98.7		70-130	1.51	25		
Surrogate: 1,2-Dichloroethane-d4	*25.7*			µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*24.5*			µg/L	25.0		97.8		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*			µg/L	25.0		103		70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B321735 - SW-846 5030B													
LCS (B321735-BS1)					Prepared: 11/01/22 Analyzed: 11/02/22								
1,3,5-Trichlorobenzene	8.98	1.0	0.21	µg/L	10.0		89.8		70-130				
1,1,1-Trichloroethane	10.3	1.0	0.17	µg/L	10.0		103		70-130				
1,1,2-Trichloroethane	9.76	1.0	0.18	µg/L	10.0		97.6		70-130				
Trichloroethylene	10.8	1.0	0.19	µg/L	10.0		108		70-130				
Trichlorofluoromethane (Freon 11)	10.9	2.0	0.18	µg/L	10.0		109		70-130				
1,2,3-Trichloropropane	9.42	2.0	0.28	µg/L	10.0		94.2		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.6	1.0	0.23	µg/L	10.0		126		70-130			V-20	
1,2,4-Trimethylbenzene	9.01	1.0	0.20	µg/L	10.0		90.1		70-130				
1,3,5-Trimethylbenzene	9.99	1.0	0.11	µg/L	10.0		99.9		70-130				
Vinyl Chloride	24.1	2.0	0.21	µg/L	10.0		**241**	*	40-160	sample result ND, no quals		L-02, V-20	†
m+p Xylene	20.1	2.0	0.46	µg/L	20.0		101		70-130				
o-Xylene	10.0	1.0	0.23	µg/L	10.0		100		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.8*			µg/L	25.0		99.0		70-130				
Surrogate: Toluene-d8	*24.4*			µg/L	25.0		97.7		70-130				
Surrogate: 4-Bromofluorobenzene	*25.8*			µg/L	25.0		103		70-130				
LCS Dup (B321735-BSD1)					Prepared: 11/01/22 Analyzed: 11/02/22								
Acetone	100	50	2.0	µg/L	100		100		70-160	1.57	25		†
Acrylonitrile	8.55	5.0	0.55	µg/L	10.0		85.5		70-130	4.01	25		
tert-Amyl Methyl Ether (TAME)	9.09	0.50	0.14	µg/L	10.0		90.9		70-130	0.985	25		
Benzene	8.96	1.0	0.20	µg/L	10.0		89.6		70-130	0.556	25		
Bromobenzene	9.93	1.0	0.15	µg/L	10.0		99.3		70-130	2.78	25		
Bromochloromethane	9.25	1.0	0.31	µg/L	10.0		92.5		70-130	5.16	25		
Bromodichloromethane	9.81	0.50	0.18	µg/L	10.0		98.1		70-130	2.22	25		
Bromoform	9.41	1.0	0.38	µg/L	10.0		94.1		70-130	0.318	25		
Bromomethane	13.8	2.0	1.5	µg/L	10.0		138		40-160	10.2	25	V-20	†
2-Butanone (MEK)	95.8	20	1.6	µg/L	100		95.8		40-160	1.06	25		†
tert-Butyl Alcohol (TBA)	88.6	20	4.7	µg/L	100		88.6		40-160	3.94	25		†
n-Butylbenzene	8.88	1.0	0.15	µg/L	10.0		88.8		70-130	0.225	25		
sec-Butylbenzene	9.01	1.0	0.11	µg/L	10.0		90.1		70-130	0.222	25		
tert-Butylbenzene	9.28	1.0	0.13	µg/L	10.0		92.8		70-130	0.430	25		
tert-Butyl Ethyl Ether (TBEE)	9.45	0.50	0.15	µg/L	10.0		94.5		70-130	2.20	25		
Carbon Disulfide	138	5.0	1.4	µg/L	100		**138**	*	70-130	7.64	25	L-02, V-20	
Carbon Tetrachloride	9.93	5.0	0.16	µg/L	10.0		99.3		70-130	4.53	25	sample results ND, no quals	
Chlorobenzene	9.76	1.0	0.11	µg/L	10.0		97.6		70-130	0.307	25		
Chlorodibromomethane	9.27	0.50	0.22	µg/L	10.0		92.7		70-130	9.16	25		
Chloroethane	11.4	2.0	0.32	µg/L	10.0		114		70-130	2.52	25		
Chloroform	9.64	2.0	0.17	µg/L	10.0		96.4		70-130	5.15	25		
Chloromethane	11.8	2.0	0.52	µg/L	10.0		118		40-160	7.77	25		†
2-Chlorotoluene	8.87	1.0	0.11	µg/L	10.0		88.7		70-130	5.16	25		
4-Chlorotoluene	9.36	1.0	0.12	µg/L	10.0		93.6		70-130	5.41	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.20	5.0	0.80	µg/L	10.0		82.0		70-130	1.23	25		
1,2-Dibromoethane (EDB)	9.71	0.50	0.17	µg/L	10.0		97.1		70-130	0.308	25		
Dibromomethane	9.74	1.0	0.35	µg/L	10.0		97.4		70-130	4.61	25		
1,2-Dichlorobenzene	9.37	1.0	0.12	µg/L	10.0		93.7		70-130	0.965	25		
1,3-Dichlorobenzene	9.15	1.0	0.12	µg/L	10.0		91.5		70-130	1.95	25		
1,4-Dichlorobenzene	9.26	1.0	0.13	µg/L	10.0		92.6		70-130	3.18	25		
trans-1,4-Dichloro-2-butene	9.22	2.0	1.6	µg/L	10.0		92.2		70-130	4.66	25		
Dichlorodifluoromethane (Freon 12)	9.42	2.0	0.19	µg/L	10.0		94.2		40-160	2.69	25		†

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B321735 - SW-846 5030B													
LCS (B321735-BS1)					Prepared: 11/01/22 Analyzed: 11/02/22								
Carbon Tetrachloride	10.4	5.0	0.16	µg/L	10.0		104		70-130				
Chlorobenzene	9.79	1.0	0.11	µg/L	10.0		97.9		70-130				
Chlorodibromomethane	10.2	0.50	0.22	µg/L	10.0		102		70-130				
Chloroethane	11.7	2.0	0.32	µg/L	10.0		117		70-130				
Chloroform	10.2	2.0	0.17	µg/L	10.0		102		70-130				
Chloromethane	10.9	2.0	0.52	µg/L	10.0		109		40-160				†
2-Chlorotoluene	9.34	1.0	0.11	µg/L	10.0		93.4		70-130				
4-Chlorotoluene	9.88	1.0	0.12	µg/L	10.0		98.8		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.10	5.0	0.80	µg/L	10.0		81.0		70-130				
1,2-Dibromoethane (EDB)	9.74	0.50	0.17	µg/L	10.0		97.4		70-130				
Dibromomethane	10.2	1.0	0.35	µg/L	10.0		102		70-130				
1,2-Dichlorobenzene	9.28	1.0	0.12	µg/L	10.0		92.8		70-130				
1,3-Dichlorobenzene	9.33	1.0	0.12	µg/L	10.0		93.3		70-130				
1,4-Dichlorobenzene	8.97	1.0	0.13	µg/L	10.0		89.7		70-130				
trans-1,4-Dichloro-2-butene	8.80	2.0	1.6	µg/L	10.0		88.0		70-130				
Dichlorodifluoromethane (Freon 12)	9.17	2.0	0.19	µg/L	10.0		91.7		40-160				†
1,1-Dichloroethane	9.52	1.0	0.14	µg/L	10.0		95.2		70-130				
1,2-Dichloroethane	9.85	1.0	0.31	µg/L	10.0		98.5		70-130				
1,1-Dichloroethylene	9.87	1.0	0.14	µg/L	10.0		98.7		70-130				
cis-1,2-Dichloroethylene	9.62	1.0	0.15	µg/L	10.0		96.2		70-130				
trans-1,2-Dichloroethylene	12.6	1.0	0.17	µg/L	10.0		126		70-130			V-20	
1,2-Dichloropropane	9.55	1.0	0.18	µg/L	10.0		95.5		70-130				
1,3-Dichloropropane	9.65	0.50	0.13	µg/L	10.0		96.5		70-130				
2,2-Dichloropropane	8.10	1.0	0.33	µg/L	10.0		81.0		40-130				†
1,1-Dichloropropene	9.78	2.0	0.15	µg/L	10.0		97.8		70-130				
cis-1,3-Dichloropropene	9.13	0.50	0.16	µg/L	10.0		91.3		70-130				
trans-1,3-Dichloropropene	8.88	0.50	0.17	µg/L	10.0		88.8		70-130				
Diethyl Ether	10.5	2.0	0.18	µg/L	10.0		105		70-130				
Diisopropyl Ether (DIPE)	9.84	0.50	0.13	µg/L	10.0		98.4		70-130				
1,4-Dioxane	83.2	50	21	µg/L	100		83.2		40-130				†
Ethylbenzene	10.0	1.0	0.21	µg/L	10.0		100		70-130				
Hexachlorobutadiene	8.87	0.60	0.46	µg/L	10.0		88.7		70-130				
2-Hexanone (MBK)	94.9	10	1.1	µg/L	100		94.9		70-160				†
Isopropylbenzene (Cumene)	10.0	1.0	0.11	µg/L	10.0		100		70-130				
p-Isopropyltoluene (p-Cymene)	9.09	1.0	0.097	µg/L	10.0		90.9		70-130				
Methyl Acetate	17.2	1.0	0.45	µg/L	10.0		**172**	*	70-130	sample result ND, no quals		L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	0.17	µg/L	10.0		100		70-130				
Methyl Cyclohexane	9.99	1.0	0.24	µg/L	10.0		99.9		70-130				
Methylene Chloride	9.84	5.0	0.23	µg/L	10.0		98.4		70-130				
4-Methyl-2-pentanone (MIBK)	94.0	10	1.3	µg/L	100		94.0		70-160				†
Naphthalene	9.48	2.0	0.24	µg/L	10.0		94.8		40-130				†
n-Propylbenzene	9.62	1.0	0.086	µg/L	10.0		96.2		70-130				
Styrene	9.91	1.0	0.11	µg/L	10.0		99.1		70-130				
1,1,1,2-Tetrachloroethane	9.98	1.0	0.18	µg/L	10.0		99.8		70-130				
1,1,2,2-Tetrachloroethane	9.19	0.50	0.13	µg/L	10.0		91.9		70-130				
Tetrachloroethylene	10.0	1.0	0.19	µg/L	10.0		100		70-130				
Tetrahydrofuran	9.40	10	0.49	µg/L	10.0		94.0		70-130			J	
Toluene	9.45	1.0	0.22	µg/L	10.0		94.5		70-130				
1,2,3-Trichlorobenzene	8.84	5.0	0.30	µg/L	10.0		88.4		70-130				
1,2,4-Trichlorobenzene	8.35	1.0	0.25	µg/L	10.0		83.5		70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B321735 - SW-846 5030B												
Blank (B321735-BLK1)					Prepared: 11/01/22 Analyzed: 11/02/22							
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L								
Methyl Acetate	ND	1.0	0.45	µg/L								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L								
Methyl Cyclohexane	ND	1.0	0.24	µg/L								
Methylene Chloride	ND	5.0	0.23	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L								
Naphthalene	ND	2.0	0.24	µg/L								
n-Propylbenzene	ND	1.0	0.086	µg/L								
Styrene	ND	1.0	0.11	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L								
Tetrachloroethylene	ND	1.0	0.19	µg/L								
Tetrahydrofuran	ND	10	0.49	µg/L								
Toluene	ND	1.0	0.22	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L								
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L								
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L								
Trichloroethylene	ND	1.0	0.19	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L								
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L								
Vinyl Chloride	ND	2.0	0.21	µg/L								
m+p Xylene	ND	2.0	0.46	µg/L								
o-Xylene	ND	1.0	0.23	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.0*			µg/L	25.0		104	70-130				
Surrogate: Toluene-d8	*24.8*			µg/L	25.0		99.1	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*			µg/L	25.0		98.6	70-130				
LCS (B321735-BS1)					Prepared: 11/01/22 Analyzed: 11/02/22							
Acetone	102	50	2.0	µg/L	100		102	70-160				†
Acrylonitrile	8.90	5.0	0.55	µg/L	10.0		89.0	70-130				
tert-Amyl Methyl Ether (TAME)	9.18	0.50	0.14	µg/L	10.0		91.8	70-130				
Benzene	9.01	1.0	0.20	µg/L	10.0		90.1	70-130				
Bromobenzene	10.2	1.0	0.15	µg/L	10.0		102	70-130				
Bromochloromethane	9.74	1.0	0.31	µg/L	10.0		97.4	70-130				
Bromodichloromethane	10.0	0.50	0.18	µg/L	10.0		100	70-130				
Bromoform	9.44	1.0	0.38	µg/L	10.0		94.4	70-130				
Bromomethane	15.3	2.0	1.5	µg/L	10.0		153	40-160			V-20	†
2-Butanone (MEK)	96.8	20	1.6	µg/L	100		96.8	40-160				†
tert-Butyl Alcohol (TBA)	92.2	20	4.7	µg/L	100		92.2	40-160				†
n-Butylbenzene	8.90	1.0	0.15	µg/L	10.0		89.0	70-130				
sec-Butylbenzene	9.03	1.0	0.11	µg/L	10.0		90.3	70-130				
tert-Butylbenzene	9.32	1.0	0.13	µg/L	10.0		93.2	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.66	0.50	0.15	µg/L	10.0		96.6	70-130				
Carbon Disulfide	149	5.0	1.4	µg/L	100		**149**	* 70-130	sample results ND, no quals		L-02, V-20	

con-test®
A Pace Analytical® Laboratory

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

Project Location: Brighton, NY | Sample Description: | Work Order: 22J4221

Date Received: 10/28/2022

Field Sample #: 828120FB3 | Sampled: 10/27/2022 10:30

Sample ID: 22J4221-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Chloroform	18	2.0	0.17	µg/L	1	U, BL2	SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/1/22	11/2/22 2:45	EEH

con-test®
A Pace Analytical® Laboratory

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

Project Location: Brighton, NY | Sample Description: | Work Order: 22J3896

Date Received: 10/27/2022

Field Sample #: 828120FB2 | Sampled: 10/26/2022 14:30

Sample ID: 22J3896-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1	V-05	SW-846 8260D	10/28/22	10/28/22 14:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Bromodichloromethane	0.44	0.50	0.18	µg/L	1	sample results ND, no quals J	SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Chloroform	23	2.0	0.17	µg/L	1	U, BL2	SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	10/28/22	10/28/22 14:02	EEH

CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in April 2023 at Carriage Cleaners in Brighton, New York, and shipped to Con-test Analytical Laboratory located in East Longmeadow, Massachusetts, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

Results were reported in the following sample delivery group (SDG):

- 23D1781

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions.

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit

J = concentration is estimated
UJ = target analyte is not detected, value is estimated
J- = concentration is estimated, potentially biased low

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260D

Detections of methylene chloride in samples 828120MW210015, DUP 828120, and 828120MW09008 were qualified non-detect (U) at the reporting limit based on contamination in the associated trip blank. Qualified results are included in Table 3 with reason code BL2.

Reporting limits for naphthalene in all field samples were qualified estimated (UJ) based on low recovery in the associated LCS/LCSD. Qualified results are included in Table 3 with reason code LCSL.

Results for a subset of parameters in sample 828120MW210015 and associated field duplicate DUP 828120 were qualified estimated (UJ) or estimated with potential low bias (J-) based on low recoveries in the associated MS/MSD. The MS/MSD RPDs for naphthalene and acrylonitrile exceeded project limits. Qualified results are included in Table 3 with reason codes MSL and MSRPD.

Reporting limits for a subset of parameters in sample 828120MW9B017 and associated field duplicate DUP 828420 were qualified estimated (UJ) based on low recoveries in the associated MS/MSD. The MS/MSD RPDs for 1,2-dibromo-3-chloropropane and t-butyl alcohol exceeded project limits. Qualified results are included in Table 3 with reason codes MSL and MSRPD.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Reporting limits in a subset of samples are elevated due to dilutions as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Amber Jones

Date: May 15, 2023

Reviewed by: Julie Ricardi

Date: May 22, 2023

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Analysis Method	SW8260	SW6010	SW6010	E300	RSK 175	E310.1	SM4500S-F	A5310B
					Method Class	VOCs	Metals	Metals	Anions	Diss Gases	Alkalinity	Sulfide	TOC
					Fraction	N	D	T	N	N	N	N	N
SDG	**Location**	**Field Sample ID**	**Media**	**Sample Date**	**Qc Code**	Count	Count	Count	Count	Count	Count	Count	Count
23D1781	EW-1	828120EW01010	GW	4/12/2023	FS	78	1	2	3	3	1	1	1
23D1781	HA-114	828120HA114013	GW	4/13/2023	FS	78	1	2	3	3	1	1	1
23D1781	MW-111I	828120MW111I013	GW	4/11/2023	FS	78	1	2	3	3	1	1	1
23D1781	MW-210	828120MW210015	GW	4/13/2023	FS	78	1	2	3	3	1	1	1
23D1781	MW-210	DUP 828120	GW	4/13/2023	FD	78							
23D1781	MW-6	828120MW06009	GW	4/12/2023	FS	78							
23D1781	MW-6B	828120MW06B027	GW	4/12/2023	FS	78							
23D1781	MW-8B	828120MW08B027	GW	4/12/2023	FS	78							
23D1781	MW-9	828120MW09008	GW	4/11/2023	FS	78	1	2	3	3	1	1	1
23D1781	MW-9B	828120MW9B017	GW	4/11/2023	FS	78							
23D1781	MW-9B	DUP 828420	GW	4/11/2023	FD	78							
23D1781	QC	828120 TB	BW	4/13/2023	TB	78							

Created by: KLD 5/2/2023
Checked by: ALJ 5/15/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/12/2023		4/13/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I013		828120MW210015	
		Qc Code	FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1-Dichloroethane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1-Dichloroethene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,1-Dichloropropene	UG/L	2	U	2	U	4	U	2	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	U	5	U	10	U	5	UJ
SW8260	1,2,3-Trichloropropane	UG/L	2	U	2	U	4	U	2	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	2	U	1	UJ
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	U	10	U	5	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,2-Dichloroethane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,2-Dichloropropane	UG/L	1	U	1	U	2	U	1	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	1,4-Dioxane	UG/L	50	U	50	U	100	U	50	U
SW8260	2,2-Dichloropropane	UG/L	1	U	1	U	2	U	1	UJ
SW8260	2-Butanone	UG/L	20	U	20	U	40	U	20	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/12/2023		4/13/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I013		828120MW210015	
		Qc Code	FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	1	U	2	U	1	U
SW8260	2-Hexanone	UG/L	10	U	10	U	20	U	10	U
SW8260	4-Chlorotoluene	UG/L	1	U	1	U	2	U	1	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	1	U	2	U	1	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	10	U	20	U	10	U
SW8260	Acetic acid, methyl ester	UG/L	1	U	1	U	2	U	1	UJ
SW8260	Acetone	UG/L	50	U	50	U	100	U	50	U
SW8260	Acrylonitrile	UG/L	5	U	5	U	10	U	5	UJ
SW8260	Benzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Bromobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Bromochloromethane	UG/L	1	U	1	U	2	U	1	U
SW8260	Bromodichloromethane	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Bromoform	UG/L	1	U	1	U	2	U	1	UJ
SW8260	Bromomethane	UG/L	2	U	2	U	4	U	2	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Carbon disulfide	UG/L	5	U	5	U	10	U	5	U
SW8260	Carbon tetrachloride	UG/L	5	U	5	U	10	U	5	U
SW8260	Chlorobenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Chloroethane	UG/L	2	U	2	U	4	U	2	U
SW8260	Chloroform	UG/L	2	U	2	U	4	U	2	U
SW8260	Chloromethane	UG/L	2	U	2	U	4	U	2	U
SW8260	cis-1,2-Dichloroethene	UG/L	10		2.5		15		6.2	
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Dibromochloromethane	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Dibromomethane	UG/L	1	U	1	U	2	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/12/2023		4/13/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I013		828120MW210015	
		Qc Code	FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	U	2	U	4	U	2	U
SW8260	Diethyl ether	UG/L	2	U	2	U	4	U	2	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Ethylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	0.6	U	1.2	U	0.6	U
SW8260	Isopropyl ether	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	Isopropylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Methyl cyclohexane	UG/L	1	U	1	U	2	U	1	U
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	1	U	2	U	1	U
SW8260	Methylene chloride	UG/L	5	U	5	U	10	U	5	U
SW8260	n-Butylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Naphthalene	UG/L	2	UJ	2	UJ	4	UJ	2	UJ
SW8260	Propylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	sec-Butylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Styrene	UG/L	1	U	1	U	2	U	1	U
SW8260	t-Butyl alcohol	UG/L	20	U	20	U	40	U	20	U
SW8260	tert-Butylbenzene	UG/L	1	U	1	U	2	U	1	U
SW8260	Tetrachloroethene	UG/L	61		29		110		36	J-
SW8260	Tetrahydrofuran	UG/L	10	U	10	U	20	U	10	U
SW8260	Toluene	UG/L	1	U	1	U	2	U	1	U
SW8260	trans-1,2-Dichloroethene	UG/L	0.22	J	1	U	2	U	1	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	1	U	0.5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	U	2	U	4	U	2	UJ
SW8260	Trichloroethene	UG/L	6.8		2.5		21		3.9	
SW8260	Trichlorofluoromethane	UG/L	2	U	2	U	4	U	2	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/12/2023		4/13/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I013		828120MW210015	
		Qc Code	FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	2	U	2	U	3.2	J	1.3	J
SW8260	Xylene, o	UG/L	1	U	1	U	2	U	1	U
SW8260	Xylenes (m&p)	UG/L	2	U	2	U	4	U	2	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-6		MW-6B		MW-8B	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/13/2023		4/12/2023		4/12/2023		4/12/2023	
		Field Sample ID	DUP 828120		828120MW06009		828120MW06B027		828120MW08B027	
		Qc Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	200	U	1	U	2	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1-Dichloroethane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1-Dichloroethene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,1-Dichloropropene	UG/L	2	U	800	U	4	U	8	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	UJ	2,000	U	10	U	20	U
SW8260	1,2,3-Trichloropropane	UG/L	2	U	800	U	4	U	8	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	UJ	400	U	2	U	4	U
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	2,000	U	10	U	20	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	200	U	1	U	2	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,2-Dichloroethane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,2-Dichloropropane	UG/L	1	U	400	U	2	U	4	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	200	U	1	U	2	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	1,4-Dioxane	UG/L	50	U	20,000	U	100	U	200	U
SW8260	2,2-Dichloropropane	UG/L	1	UJ	400	U	2	U	4	U
SW8260	2-Butanone	UG/L	20	U	8,000	U	40	U	28	J

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-6		MW-6B		MW-8B	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/13/2023		4/12/2023		4/12/2023		4/12/2023	
		Field Sample ID	DUP 828120		828120MW06009		828120MW06B027		828120MW08B027	
		Qc Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	400	U	2	U	4	U
SW8260	2-Hexanone	UG/L	10	U	4,000	U	20	U	40	U
SW8260	4-Chlorotoluene	UG/L	1	U	400	U	2	U	4	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	400	U	2	U	4	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	4,000	U	20	U	40	U
SW8260	Acetic acid, methyl ester	UG/L	1	UJ	400	U	2	U	4	U
SW8260	Acetone	UG/L	50	U	20,000	U	100	U	200	U
SW8260	Acrylonitrile	UG/L	5	UJ	2,000	U	10	U	20	U
SW8260	Benzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Bromobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Bromochloromethane	UG/L	1	U	400	U	2	U	4	U
SW8260	Bromodichloromethane	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Bromoform	UG/L	1	UJ	400	U	2	U	4	U
SW8260	Bromomethane	UG/L	2	U	800	U	4	U	8	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Carbon disulfide	UG/L	5	U	2,000	U	10	U	20	U
SW8260	Carbon tetrachloride	UG/L	5	U	2,000	U	10	U	20	U
SW8260	Chlorobenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Chloroethane	UG/L	2	U	800	U	4	U	8	U
SW8260	Chloroform	UG/L	2	U	800	U	4	U	8	U
SW8260	Chloromethane	UG/L	2	U	800	U	4	U	8	U
SW8260	cis-1,2-Dichloroethene	UG/L	5.7		400	U	0.4	J	9.5	
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Dibromochloromethane	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Dibromomethane	UG/L	1	U	400	U	2	U	4	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-6		MW-6B		MW-8B	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/13/2023		4/12/2023		4/12/2023		4/12/2023	
		Field Sample ID	DUP 828120		828120MW06009		828120MW06B027		828120MW08B027	
		Qc Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	U	800	U	4	U	8	U
SW8260	Diethyl ether	UG/L	2	U	800	U	4	U	8	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Ethylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	240	U	1.2	U	2.4	U
SW8260	Isopropyl ether	UG/L	0.5	U	200	U	1	U	2	U
SW8260	Isopropylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Methyl cyclohexane	UG/L	1	U	400	U	2	U	4	U
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	400	U	2	U	4	U
SW8260	Methylene chloride	UG/L	5	U	2,000	U	10	U	20	U
SW8260	n-Butylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Naphthalene	UG/L	2	UJ	800	UJ	4	UJ	8	UJ
SW8260	Propylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	sec-Butylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Styrene	UG/L	1	U	400	U	2	U	4	U
SW8260	t-Butyl alcohol	UG/L	20	U	8,000	U	40	U	80	U
SW8260	tert-Butylbenzene	UG/L	1	U	400	U	2	U	4	U
SW8260	Tetrachloroethene	UG/L	36	J-	25,000		160		200	
SW8260	Tetrahydrofuran	UG/L	10	U	4,000	U	20	U	40	U
SW8260	Toluene	UG/L	1	U	400	U	2	U	4	U
SW8260	trans-1,2-Dichloroethene	UG/L	1	U	400	U	2	U	4	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	200	U	1	U	2	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	UJ	800	U	4	U	8	U
SW8260	Trichloroethene	UG/L	3.3		400	U	0.44	J	10	
SW8260	Trichlorofluoromethane	UG/L	2	U	800	U	4	U	8	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-210		MW-6		MW-6B		MW-8B	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/13/2023		4/12/2023		4/12/2023		4/12/2023	
		Field Sample ID	DUP 828120		828120MW06009		828120MW06B027		828120MW08B027	
		Qc Code	FD		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	1.4	J	800	U	4	U	8	U
SW8260	Xylene, o	UG/L	1	U	400	U	2	U	4	U
SW8260	Xylenes (m&p)	UG/L	2	U	800	U	4	U	8	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-9		MW-9B		MW-9B		QC	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/11/2023		4/11/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120MW09008		DUP 828420		828120MW9B017		828120 TB	
		Qc Code	FS		FD		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1,2-Tetrachloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1,2-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,1-Dichloropropene	UG/L	2	U	2	U	2	U	2	U
SW8260	1,2,3-Trichlorobenzene	UG/L	5	U	5	UJ	5	UJ	5	U
SW8260	1,2,3-Trichloropropane	UG/L	2	U	2	U	2	U	2	U
SW8260	1,2,4-Trichlorobenzene	UG/L	1	U	1	UJ	1	UJ	1	U
SW8260	1,2,4-Trimethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	UJ	5	UJ	5	U
SW8260	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3,5-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3,5-Trimethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,3-Dichloropropane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	1,4-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	1,4-Dioxane	UG/L	50	U	50	U	50	U	50	U
SW8260	2,2-Dichloropropane	UG/L	1	U	1	UJ	1	UJ	1	U
SW8260	2-Butanone	UG/L	20	U	20	U	20	U	20	U

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-9		MW-9B		MW-9B		QC	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/11/2023		4/11/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120MW09008		DUP 828420		828120MW9B017		828120 TB	
		Qc Code	FS		FD		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	2-Chlorotoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	2-Hexanone	UG/L	10	U	10	U	10	U	10	U
SW8260	4-Chlorotoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	4-iso-Propyltoluene	UG/L	1	U	1	U	1	U	1	U
SW8260	4-Methyl-2-pentanone	UG/L	10	U	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	UG/L	1	U	1	UJ	1	UJ	1	U
SW8260	Acetone	UG/L	50	U	50	U	50	U	50	U
SW8260	Acrylonitrile	UG/L	5	U	5	U	5	U	5	U
SW8260	Benzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromochloromethane	UG/L	1	U	1	U	1	U	1	U
SW8260	Bromodichloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Bromoform	UG/L	1	U	1	UJ	1	UJ	1	U
SW8260	Bromomethane	UG/L	2	U	2	U	2	U	2	U
SW8260	Butane, 2-methoxy-2-methyl-	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Carbon disulfide	UG/L	5	U	5	U	5	U	5	U
SW8260	Carbon tetrachloride	UG/L	5	U	5	U	5	U	5	U
SW8260	Chlorobenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Chloroethane	UG/L	2	U	2	U	2	U	2	U
SW8260	Chloroform	UG/L	2	U	2	U	2	U	2	U
SW8260	Chloromethane	UG/L	2	U	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
SW8260	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromochloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Dibromomethane	UG/L	1	U	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-9		MW-9B		MW-9B		QC	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/11/2023		4/11/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120MW09008		DUP 828420		828120MW9B017		828120 TB	
		Qc Code	FS		FD		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Dichlorodifluoromethane	UG/L	2	U	2	U	2	U	2	U
SW8260	Diethyl ether	UG/L	2	U	2	U	2	U	2	U
SW8260	Ethyl-t-Butyl Ether	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Ethylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Hexachlorobutadiene	UG/L	0.6	U	0.6	U	0.6	U	0.6	U
SW8260	Isopropyl ether	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	Isopropylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Methyl cyclohexane	UG/L	1	U	1	U	1	U	1	U
SW8260	Methyl Tertbutyl Ether	UG/L	1	U	1	U	1	U	1	U
SW8260	Methylene chloride	UG/L	5	U	5	U	5	U	0.24	J
SW8260	n-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Naphthalene	UG/L	2	UJ	2	UJ	2	UJ	2	U
SW8260	Propylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	sec-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Styrene	UG/L	1	U	1	U	1	U	1	U
SW8260	t-Butyl alcohol	UG/L	20	U	20	UJ	20	UJ	20	U
SW8260	tert-Butylbenzene	UG/L	1	U	1	U	1	U	1	U
SW8260	Tetrachloroethene	UG/L	1.1		1	U	1	U	1	U
SW8260	Tetrahydrofuran	UG/L	10	U	10	U	10	U	10	U
SW8260	Toluene	UG/L	1	U	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
SW8260	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U
SW8260	trans-1,4-Dichloro-2-butene	UG/L	2	U	2	UJ	2	UJ	2	U
SW8260	Trichloroethene	UG/L	1	U	1	U	1	U	1	U
SW8260	Trichlorofluoromethane	UG/L	2	U	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-9		MW-9B		MW-9B		QC	
		Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781	
		Field Sample Date	4/11/2023		4/11/2023		4/11/2023		4/13/2023	
		Field Sample ID	828120MW09008		DUP 828420		828120MW9B017		828120 TB	
		Qc Code	FS		FD		FS		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Vinyl chloride	UG/L	2	U	2	U	2	U	2	U
SW8260	Xylene, o	UG/L	1	U	1	U	1	U	1	U
SW8260	Xylenes (m&p)	UG/L	2	U	2	U	2	U	2	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

			Location	EW-1		HA-114		MW-111I		MW-210		MW-9	
			Lab Sample Delivery Group	23D1781		23D1781		23D1781		23D1781		23D1781	
			Field Sample Date	4/12/2023		4/13/2023		4/11/2023		4/13/2023		4/11/2023	
			Field Sample ID	828120EW01010		828120HA114013		828120MW111I013		828120MW210015		828120MW09008	
			Qc Code	FS		FS		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW6010	Iron	T	MG/L	0.095		0.55		0.05	U	1.2		0.76	
SW6010	Iron	D	MG/L	0.049	J	0.064		0.05	U	0.54		0.49	
SW6010	Manganese	T	MG/L	0.15		0.044		0.043		0.12		0.15	
E300	Nitrate as N	N	MG/L	0.1	U	0.9		0.1	U	0.1	U	1.1	
E300	Sulfate	N	MG/L	33		50		110		67		59	
E300	Chloride	N	MG/L	140		670		240		130		400	
RSK 175	Ethane	N	MG/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
RSK 175	Ethene	N	MG/L	0.017	U	0.017	U	0.017	U	0.017	U	0.017	U
RSK 175	Methane	N	MG/L	0.007	U	0.007	U	0.0018	J	0.0026	J	0.007	U
E310.1	Alkalinity	N	MG/L	350		350		350		400		500	
SM4500S-F	Sulfide	N	MG/L	2.4		3.8		2.8		2	U	4	
A5310B	Total Organic Carbon	N	MG/L	1.6		2		1.6		2		6.7	

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Method	Lab Sample ID	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
23D1781	SW8260	23D1781-03	828120MW9B017	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Methylene chloride	0.23	J	5	U	BL2	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	t-Butyl alcohol	20	U	20	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Acrylonitrile	5	U	5	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Acrylonitrile	5	U	5	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Bromoform	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Methylene chloride	0.18	J	5	U	BL2	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Bromoform	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Naphthalene	2	U	2	UJ	LCSL, MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Naphthalene	2	U	2	UJ	LCSL, MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	Tetrachloroethene	36		36	J-	MSL	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	Tetrachloroethene	36		36	J-	MSL	UG/L
23D1781	SW8260	23D1781-01	828120MW210015	trans-1,4-Dichloro-2-butene	2	U	2	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	trans-1,4-Dichloro-2-butene	2	U	2	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	Bromoform	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Method	Lab Sample ID	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
23D1781	SW8260	23D1781-04	DUP 828420	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	Bromoform	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	2,2-Dichloropropane	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	trans-1,4-Dichloro-2-butene	2	U	2	UJ	MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	t-Butyl alcohol	20	U	20	UJ	MSL, MSRPD	UG/L
23D1781	SW8260	23D1781-02	DUP 828120	trans-1,4-Dichloro-2-butene	2	U	2	UJ	MSL	UG/L
23D1781	SW8260	23D1781-03	828120MW9B017	Naphthalene	2	U	2	UJ	LCSL, MSL	UG/L
23D1781	SW8260	23D1781-04	DUP 828420	Naphthalene	2	U	2	UJ	LCSL, MSL	UG/L
23D1781	SW8260	23D1781-05	828120MW06B027	Naphthalene	4	U	4	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-06	828120MW06009	Naphthalene	800	U	800	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-07	828120MW08B027	Naphthalene	8	U	8	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-08	828120HA114013	Naphthalene	2	U	2	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-09	828120MW111I013	Naphthalene	4	U	4	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-10	828120MW09008	Naphthalene	2	U	2	UJ	LCSL	UG/L
23D1781	SW8260	23D1781-10	828120MW09008	Methylene chloride	0.19	J	5	U	BL2	UG/L
23D1781	SW8260	23D1781-11	828120EW01010	Naphthalene	2	U	2	UJ	LCSL	UG/L

Created by: KLD 5/16/2023
Checked by: ALJ 5/16/2023

CATEGORY A REVIEW
APRIL 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Carriage Cleaners April 2023
Method : SW-846 8260C
Laboratory: Pace Con-test **SDG(s):** 23D1781
Date: 5/15/2023
Reviewer: Amber Jones
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? yes, see atatched

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one) MNA parameters - completeness check only

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one) see attached - methylene chloride - U @ RL, BL2

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO see attached - subset UJ/J-, MSL/MSRPD

   Were all results within the Region II limits? YES NO NA (circle one)

5. ☑ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

   Were all results were within Region II control limits? YES NO (circle one) see attached - naphthalene - UJ, LCSL

6. ☑ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

   Were all results within Region II limits? YES NO (circle one)

7. ☑ **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO see attached for RPD calculations

   Were all results within Region II Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   828120MW06009 - 400x; 828120MW08B027 - 4x; 828120MW06B027 and 828120MW111I013 - 2x - elevated RLs for ND

9. ☑ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

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

EPA 300.0

Qualifications:

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

Nitrate as N
23D1781-11[828120EW01010]

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

Nitrate as N
23D1781-09[828120MW111I013], 23D1781-10[828120MW09008]

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride
23D1781-01[828120MW210015], B338376-MS1, B338376-MSD1

Sulfate
23D1781-01[828120MW210015], B338377-MS1, B338377-MSD1

SM 21-23 5310B

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Total Organic Carbon
B338487-BS1

SW-846 8260D

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated. see attached for MS/MSD review

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B337731-MS1, B337731-MSD1

2,2-Dichloropropane
B337731-MS1, B337731-MS2, B337731-MSD1, B337731-MSD2

Methyl Acetate
B337731-MS1, B337731-MS2, B337731-MSD1, B337731-MSD2

Naphthalene
B337731-MS1, B337731-MS2, B337731-MSD1, B337731-MSD2

trans-1,4-Dichloro-2-butene
B337731-MS2, B337731-MSD2

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated. see attached for MS/MSD review

Analyte & Samples(s) Qualified:

Tetrachloroethylene
B337731-MSD1

con-test®
A Pace Analytical® Laboratory

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

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

see attached for MS/MSD review

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
B337731-MS2, B337731-MSD2

Acrylonitrile
B337731-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

see attached for MS/MSD review

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B337731-MS2

1,2,4-Trichlorobenzene
B337731-MS1, B337731-MS2

Bromoform
B337731-MS1, B337731-MS2

tert-Butyl Alcohol (TBA)
B337731-MS2

trans-1,4-Dichloro-2-butene
B337731-MS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

okay - elevated RLs for ND

Analyte & Samples(s) Qualified:

23D1781-05[828120MW06B027], 23D1781-06[828120MW06009], 23D1781-07[828120MW08B027], 23D1781-09[828120MW111I013]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

outside scope of Cat A review - no quals

Analyte & Samples(s) Qualified:

Naphthalene
23D1781-02[DUP 828120], 23D1781-03[828120MW9B017], 23D1781-04[DUP 828420], 23D1781-05[828120MW06B027], 23D1781-06[828120MW06009], 23D1781-07[828120MW08B027], 23D1781-08[828120HA114013], 23D1781-09[828120MW111I013], 23D1781-10[828120MW09008], 23D1781-11[828120EW01010], 23D1781-12[828120 TB], B337731-BLK1, B337731-BS1, B337731-BSD1, S086276-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

outside scope of Cat A review - no quals

Analyte & Samples(s) Qualified:

2-Butanone (MEK)
23D1781-07[828120MW08B027], B337731-BS1, B337731-BSD1, S086276-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

outside scope of Cat A review - no quals

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12
B337731-BS1, B337731-BSD1, S086276-CCV1

Tetrahydrofuran
B337731-BS1, B337731-BSD1, S086276-CCV1

con-test®
A Pace Analytical® Laboratory

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

Project Location: Brighton, NY | Sample Description: | Work Order: 23D1781

Date Received: 4/14/2023

Field Sample #: 828120 TB | Sampled: 4/13/2023 00:00

Sample ID: 23D1781-12

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.20	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Hexachlorobutadiene	ND	0.60	0.47	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.13	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Methylene Chloride	0.24	5.0	0.18	µg/L	1	J	SW-846 8260D	4/20/23	4/21/23 1:42	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Naphthalene	ND	2.0	0.38	µg/L	1	V-05	SW-846 8260D	4/20/23	4/21/23 1:42	EEH
n-Propylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
m+p Xylene	ND	2.0	0.49	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH
o-Xylene	ND	1.0	0.24	µg/L	1		SW-846 8260D	4/20/23	4/21/23 1:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		4/21/23 1:42
Toluene-d8	101	70-130		4/21/23 1:42
4-Bromofluorobenzene	90.3	70-130		4/21/23 1:42

subset U @ RL, BL2

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B337731 - SW-846 5030B								70-130				
LCS (B337731-BS1)					Prepared & Analyzed: 04/20/23							
Carbon Tetrachloride	10.5	5.0	0.16	µg/L	10.0		105	70-130				
Chlorobenzene	9.23	1.0	0.12	µg/L	10.0		92.3	70-130				
Chlorodibromomethane	8.96	0.50	0.20	µg/L	10.0		89.6	70-130				
Chloroethane	9.36	2.0	0.34	µg/L	10.0		93.6	70-130				
Chloroform	10.6	2.0	0.14	µg/L	10.0		106	70-130				
Chloromethane	10.2	2.0	0.50	µg/L	10.0		102	40-160				†
2-Chlorotoluene	9.56	1.0	0.15	µg/L	10.0		95.6	70-130				
4-Chlorotoluene	9.51	1.0	0.15	µg/L	10.0		95.1	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.94	5.0	0.85	µg/L	10.0		89.4	70-130				
1,2-Dibromoethane (EDB)	10.0	0.50	0.16	µg/L	10.0		100	70-130				
Dibromomethane	9.98	1.0	0.32	µg/L	10.0		99.8	70-130				
1,2-Dichlorobenzene	9.67	1.0	0.13	µg/L	10.0		96.7	70-130				
1,3-Dichlorobenzene	9.52	1.0	0.14	µg/L	10.0		95.2	70-130				
1,4-Dichlorobenzene	9.04	1.0	0.13	µg/L	10.0		90.4	70-130				
trans-1,4-Dichloro-2-butene	8.87	2.0	1.5	µg/L	10.0		88.7	70-130				
Dichlorodifluoromethane (Freon 12)	11.8	2.0	0.16	µg/L	10.0		118	40-160			V-20	†
1,1-Dichloroethane	10.4	1.0	0.14	µg/L	10.0		104	70-130				
1,2-Dichloroethane	10.3	1.0	0.30	µg/L	10.0		103	70-130				
1,1-Dichloroethylene	10.2	1.0	0.14	µg/L	10.0		102	70-130				
cis-1,2-Dichloroethylene	10.6	1.0	0.14	µg/L	10.0		106	70-130				
trans-1,2-Dichloroethylene	9.77	1.0	0.17	µg/L	10.0		97.7	70-130				
1,2-Dichloropropane	10.6	1.0	0.19	µg/L	10.0		106	70-130				
1,3-Dichloropropane	10.3	0.50	0.12	µg/L	10.0		103	70-130				
2,2-Dichloropropane	9.04	1.0	0.35	µg/L	10.0		90.4	40-130				†
1,1-Dichloropropene	10.2	2.0	0.15	µg/L	10.0		102	70-130				
cis-1,3-Dichloropropene	9.41	0.50	0.16	µg/L	10.0		94.1	70-130				
trans-1,3-Dichloropropene	9.59	0.50	0.14	µg/L	10.0		95.9	70-130				
Diethyl Ether	10.6	2.0	0.14	µg/L	10.0		106	70-130				
Diisopropyl Ether (DIPE)	11.2	0.50	0.20	µg/L	10.0		112	70-130				
1,4-Dioxane	87.7	50	18	µg/L	100		87.7	40-130				†
Ethylbenzene	9.73	1.0	0.22	µg/L	10.0		97.3	70-130				
Hexachlorobutadiene	10.2	0.60	0.47	µg/L	10.0		102	70-130				
2-Hexanone (MBK)	99.1	10	1.2	µg/L	100		99.1	70-160				†
Isopropylbenzene (Cumene)	9.21	1.0	0.15	µg/L	10.0		92.1	70-130				
p-Isopropyltoluene (p-Cymene)	9.62	1.0	0.13	µg/L	10.0		96.2	70-130				
Methyl Acetate	8.90	1.0	0.61	µg/L	10.0		89.0	70-130				
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	0.17	µg/L	10.0		103	70-130				
Methyl Cyclohexane	10.4	1.0	0.16	µg/L	10.0		104	70-130				
Methylene Chloride	10.0	5.0	0.18	µg/L	10.0		100	70-130				
4-Methyl-2-pentanone (MIBK)	100	10	1.3	µg/L	100		100	70-160				†
Naphthalene UJ, LCSL	5.95	2.0	0.38	µg/L	10.0		59.5	40-130			V-05	†
n-Propylbenzene	9.27	1.0	0.12	µg/L	10.0		92.7	70-130				
Styrene	9.46	1.0	0.15	µg/L	10.0		94.6	70-130				
1,1,1,2-Tetrachloroethane	9.79	1.0	0.16	µg/L	10.0		97.9	70-130				
1,1,2,2-Tetrachloroethane	8.37	0.50	0.14	µg/L	10.0		83.7	70-130				
Tetrachloroethylene	9.83	1.0	0.17	µg/L	10.0		98.3	70-130				
Tetrahydrofuran	11.1	10	0.49	µg/L	10.0		111	70-130			V-20	
Toluene	9.93	1.0	0.22	µg/L	10.0		99.3	70-130				
1,2,3-Trichlorobenzene	7.91	5.0	0.34	µg/L	10.0		79.1	70-130				
1,2,4-Trichlorobenzene	8.05	1.0	0.30	µg/L	10.0		80.5	70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
								70-130				
Batch B337731 - SW-846 5030B												
LCS Dup (B337731-BSD1)					Prepared & Analyzed: 04/20/23							
1,1-Dichloroethane	10.0	1.0	0.14	µg/L	10.0		100	70-130	3.43	25		
1,2-Dichloroethane	10.9	1.0	0.30	µg/L	10.0		109	70-130	5.00	25		
1,1-Dichloroethylene	9.72	1.0	0.14	µg/L	10.0		97.2	70-130	4.62	25		
cis-1,2-Dichloroethylene	9.83	1.0	0.14	µg/L	10.0		98.3	70-130	7.07	25		
trans-1,2-Dichloroethylene	9.21	1.0	0.17	µg/L	10.0		92.1	70-130	5.90	25		
1,2-Dichloropropane	11.2	1.0	0.19	µg/L	10.0		112	70-130	5.53	25		
1,3-Dichloropropane	10.5	0.50	0.12	µg/L	10.0		105	70-130	2.41	25		
2,2-Dichloropropane	8.82	1.0	0.35	µg/L	10.0		88.2	40-130	2.46	25		†
1,1-Dichloropropene	10.0	2.0	0.15	µg/L	10.0		100	70-130	1.88	25		
cis-1,3-Dichloropropene	9.85	0.50	0.16	µg/L	10.0		98.5	70-130	4.57	25		
trans-1,3-Dichloropropene	9.56	0.50	0.14	µg/L	10.0		95.6	70-130	0.313	25		
Diethyl Ether	10.6	2.0	0.14	µg/L	10.0		106	70-130	0.377	25		
Diisopropyl Ether (DIPE)	10.9	0.50	0.20	µg/L	10.0		109	70-130	1.99	25		
1,4-Dioxane	102	50	18	µg/L	100		102	40-130	15.4	50		† ‡
Ethylbenzene	9.39	1.0	0.22	µg/L	10.0		93.9	70-130	3.56	25		
Hexachlorobutadiene	9.95	0.60	0.47	µg/L	10.0		99.5	70-130	2.29	25		
2-Hexanone (MBK)	95.0	10	1.2	µg/L	100		95.0	70-160	4.25	25		†
Isopropylbenzene (Cumene)	9.06	1.0	0.15	µg/L	10.0		90.6	70-130	1.64	25		
p-Isopropyltoluene (p-Cymene)	9.25	1.0	0.13	µg/L	10.0		92.5	70-130	3.92	25		
Methyl Acetate	8.39	1.0	0.61	µg/L	10.0		83.9	70-130	5.90	25		
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	0.17	µg/L	10.0		101	70-130	1.87	25		
Methyl Cyclohexane	10.6	1.0	0.16	µg/L	10.0		106	70-130	2.19	25		
Methylene Chloride	9.60	5.0	0.18	µg/L	10.0		96.0	70-130	4.38	25		
4-Methyl-2-pentanone (MIBK)	99.1	10	1.3	µg/L	100		99.1	70-160	1.22	25		†
Naphthalene UJ, LCSL	6.15	2.0	0.38	µg/L	10.0		61.5	40-130	3.31	25	V-05	†
n-Propylbenzene	9.25	1.0	0.12	µg/L	10.0		92.5	70-130	0.216	25		
Styrene	9.19	1.0	0.15	µg/L	10.0		91.9	70-130	2.90	25		
1,1,1,2-Tetrachloroethane	9.32	1.0	0.16	µg/L	10.0		93.2	70-130	4.92	25		
1,1,2,2-Tetrachloroethane	8.70	0.50	0.14	µg/L	10.0		87.0	70-130	3.87	25		
Tetrachloroethylene	9.52	1.0	0.17	µg/L	10.0		95.2	70-130	3.20	25		
Tetrahydrofuran	11.0	10	0.49	µg/L	10.0		110	70-130	0.362	25	V-20	
Toluene	9.93	1.0	0.22	µg/L	10.0		99.3	70-130	0.00	25		
1,2,3-Trichlorobenzene	7.85	5.0	0.34	µg/L	10.0		78.5	70-130	0.761	25		
1,2,4-Trichlorobenzene	7.81	1.0	0.30	µg/L	10.0		78.1	70-130	3.03	25		
1,3,5-Trichlorobenzene	9.92	1.0	0.21	µg/L	10.0		99.2	70-130	0.803	25		
1,1,1-Trichloroethane	10.3	1.0	0.15	µg/L	10.0		103	70-130	3.15	25		
1,1,2-Trichloroethane	10.4	1.0	0.19	µg/L	10.0		104	70-130	4.72	25		
Trichloroethylene	10.2	1.0	0.17	µg/L	10.0		102	70-130	3.85	25		
Trichlorofluoromethane (Freon 11)	10.2	2.0	0.15	µg/L	10.0		102	70-130	6.57	25		
1,2,3-Trichloropropane	11.1	2.0	0.28	µg/L	10.0		111	70-130	4.49	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.31	1.0	0.21	µg/L	10.0		93.1	70-130	11.3	25		
1,2,4-Trimethylbenzene	9.49	1.0	0.20	µg/L	10.0		94.9	70-130	2.35	25		
1,3,5-Trimethylbenzene	9.03	1.0	0.15	µg/L	10.0		90.3	70-130	1.87	25		
Vinyl Chloride	10.8	2.0	0.24	µg/L	10.0		108	40-160	7.30	25		†
m+p Xylene	18.5	2.0	0.49	µg/L	20.0		92.5	70-130	2.88	25		
o-Xylene	9.00	1.0	0.24	µg/L	10.0		90.0	70-130	4.67	25		
Surrogate: 1,2-Dichloroethane-d4	*27.7*			µg/L	25.0		111	70-130				
Surrogate: Toluene-d8	*25.6*			µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*23.5*			µg/L	25.0		94.1	70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B337731 - SW-846 5030B									70-130			
Matrix Spike (B337731-MS1)		**Source: 23D1781-01**				Prepared: 04/20/23 Analyzed: 04/21/23						
Acetone	89.5	50	2.0	µg/L	100	ND	89.5		70-130			
Acrylonitrile	8.92	5.0	0.47	µg/L	10.0	ND	89.2		70-130			
tert-Amyl Methyl Ether (TAME)	9.10	0.50	0.13	µg/L	10.0	ND	91.0		70-130			
Benzene	9.20	1.0	0.18	µg/L	10.0	ND	92.0		70-130			
Bromobenzene	8.17	1.0	0.15	µg/L	10.0	ND	81.7		70-130			
Bromochloromethane	9.88	1.0	0.28	µg/L	10.0	ND	98.8		70-130			
Bromodichloromethane	9.23	0.50	0.16	µg/L	10.0	ND	92.3		70-130			
Bromoform UJ, MSL	6.65	1.0	0.41	µg/L	10.0	ND	**66.5**	*	70-130			MS-24
Bromomethane	9.15	2.0	1.3	µg/L	10.0	ND	91.5		70-130			
2-Butanone (MEK)	92.2	20	1.7	µg/L	100	ND	92.2		70-130			
tert-Butyl Alcohol (TBA)	71.9	20	4.3	µg/L	100	ND	71.9		70-130			
n-Butylbenzene	7.85	1.0	0.15	µg/L	10.0	ND	78.5		70-130			
sec-Butylbenzene	8.28	1.0	0.13	µg/L	10.0	ND	82.8		70-130			
tert-Butylbenzene	8.14	1.0	0.14	µg/L	10.0	ND	81.4		70-130			
tert-Butyl Ethyl Ether (TBEE)	9.43	0.50	0.15	µg/L	10.0	ND	94.3		70-130			
Carbon Disulfide	83.0	5.0	1.6	µg/L	100	ND	83.0		70-130			
Carbon Tetrachloride	9.46	5.0	0.16	µg/L	10.0	ND	94.6		70-130			
Chlorobenzene	8.15	1.0	0.12	µg/L	10.0	ND	81.5		70-130			
Chlorodibromomethane	8.15	0.50	0.20	µg/L	10.0	ND	81.5		70-130			
Chloroethane	8.71	2.0	0.34	µg/L	10.0	ND	87.1		70-130			
Chloroform	9.14	2.0	0.14	µg/L	10.0	ND	91.4		70-130			
Chloromethane	8.50	2.0	0.50	µg/L	10.0	ND	85.0		70-130			
2-Chlorotoluene	7.67	1.0	0.15	µg/L	10.0	ND	76.7		70-130			
4-Chlorotoluene	7.99	1.0	0.15	µg/L	10.0	ND	79.9		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.48	5.0	0.85	µg/L	10.0	ND	74.8		70-130			
1,2-Dibromoethane (EDB)	8.76	0.50	0.16	µg/L	10.0	ND	87.6		70-130			
Dibromomethane	8.63	1.0	0.32	µg/L	10.0	ND	86.3		70-130			
1,2-Dichlorobenzene	8.17	1.0	0.13	µg/L	10.0	ND	81.7		70-130			
1,3-Dichlorobenzene	8.01	1.0	0.14	µg/L	10.0	ND	80.1		70-130			
1,4-Dichlorobenzene	7.89	1.0	0.13	µg/L	10.0	ND	78.9		70-130			
trans-1,4-Dichloro-2-butene UJ, MSL	6.56	2.0	1.5	µg/L	10.0	ND	**65.6**	*	70-130			MS-24
Dichlorodifluoromethane (Freon 12)	11.7	2.0	0.16	µg/L	10.0	ND	117		70-130			
1,1-Dichloroethane	9.20	1.0	0.14	µg/L	10.0	ND	92.0		70-130			
1,2-Dichloroethane	9.59	1.0	0.30	µg/L	10.0	ND	95.9		70-130			
1,1-Dichloroethylene	9.16	1.0	0.14	µg/L	10.0	ND	91.6		70-130			
cis-1,2-Dichloroethylene	14.5	1.0	0.14	µg/L	10.0	6.24	82.8		70-130			
trans-1,2-Dichloroethylene	8.65	1.0	0.17	µg/L	10.0	ND	86.5		70-130			
1,2-Dichloropropane	9.04	1.0	0.19	µg/L	10.0	ND	90.4		70-130			
1,3-Dichloropropane	9.26	0.50	0.12	µg/L	10.0	ND	92.6		70-130			
2,2-Dichloropropane UJ, MSL	6.19	1.0	0.35	µg/L	10.0	ND	**61.9**	*	70-130			MS-09
1,1-Dichloropropene	9.56	2.0	0.15	µg/L	10.0	ND	95.6		70-130			
cis-1,3-Dichloropropene	7.98	0.50	0.16	µg/L	10.0	ND	79.8		70-130			
trans-1,3-Dichloropropene	7.90	0.50	0.14	µg/L	10.0	ND	79.0		70-130			
Diethyl Ether	9.33	2.0	0.14	µg/L	10.0	ND	93.3		70-130			
Diisopropyl Ether (DIPE)	9.80	0.50	0.20	µg/L	10.0	ND	98.0		70-130			
1,4-Dioxane	76.9	50	18	µg/L	100	ND	76.9		70-130			
Ethylbenzene	8.16	1.0	0.22	µg/L	10.0	ND	81.6		70-130			
Hexachlorobutadiene	8.22	0.60	0.47	µg/L	10.0	ND	82.2		70-130			
2-Hexanone (MBK)	79.8	10	1.2	µg/L	100	ND	79.8		70-130			
Isopropylbenzene (Cumene)	7.96	1.0	0.15	µg/L	10.0	ND	79.6		70-130			

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B337731 - SW-846 5030B									70-130			
Matrix Spike (B337731-MS1)		**Source: 23D1781-01**			Prepared: 04/20/23 Analyzed: 04/21/23							
p-Isopropyltoluene (p-Cymene)	7.98	1.0	0.13	µg/L	10.0	ND	79.8		70-130			
Methyl Acetate UJ, MSL	5.75	1.0	0.61	µg/L	10.0	ND	**57.5**	*	70-130			MS-09
Methyl tert-Butyl Ether (MTBE)	9.18	1.0	0.17	µg/L	10.0	ND	91.8		70-130			
Methyl Cyclohexane	9.43	1.0	0.16	µg/L	10.0	ND	94.3		70-130			
Methylene Chloride	8.86	5.0	0.18	µg/L	10.0	0.230	86.3		70-130			
4-Methyl-2-pentanone (MIBK)	79.1	10	1.3	µg/L	100	ND	79.1		70-130			
Naphthalene UJ, MSL	4.70	2.0	0.38	µg/L	10.0	ND	**47.0**	*	70-130			MS-09
n-Propylbenzene	7.92	1.0	0.12	µg/L	10.0	ND	79.2		70-130			
Styrene	7.61	1.0	0.15	µg/L	10.0	ND	76.1		70-130			
1,1,1,2-Tetrachloroethane	8.46	1.0	0.16	µg/L	10.0	ND	84.6		70-130			
1,1,2,2-Tetrachloroethane	7.49	0.50	0.14	µg/L	10.0	ND	74.9		70-130			
Tetrachloroethylene	45.7	1.0	0.17	µg/L	10.0	35.9	98.7		70-130			
Tetrahydrofuran	9.88	10	0.49	µg/L	10.0	ND	98.8		70-130			J
Toluene	8.60	1.0	0.22	µg/L	10.0	ND	86.0		70-130			
1,2,3-Trichlorobenzene UJ, MSL	5.86	5.0	0.34	µg/L	10.0	ND	**58.6**	*	70-130			MS-09
1,2,4-Trichlorobenzene UJ, MSL	6.35	1.0	0.30	µg/L	10.0	ND	**63.5**	*	70-130			MS-24
1,3,5-Trichlorobenzene	8.39	1.0	0.21	µg/L	10.0	ND	83.9		70-130			
1,1,1-Trichloroethane	9.83	1.0	0.15	µg/L	10.0	ND	98.3		70-130			
1,1,2-Trichloroethane	8.97	1.0	0.19	µg/L	10.0	ND	89.7		70-130			
Trichloroethylene	12.8	1.0	0.17	µg/L	10.0	3.88	89.5		70-130			
Trichlorofluoromethane (Freon 11)	9.97	2.0	0.15	µg/L	10.0	ND	99.7		70-130			
1,2,3-Trichloropropane	9.28	2.0	0.28	µg/L	10.0	ND	92.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.19	1.0	0.21	µg/L	10.0	ND	91.9		70-130			
1,2,4-Trimethylbenzene	7.89	1.0	0.20	µg/L	10.0	ND	78.9		70-130			
1,3,5-Trimethylbenzene	7.88	1.0	0.15	µg/L	10.0	ND	78.8		70-130			
Vinyl Chloride	11.9	2.0	0.24	µg/L	10.0	1.33	106		70-130			
m+p Xylene	16.0	2.0	0.49	µg/L	20.0	ND	80.1		70-130			
o-Xylene	7.91	1.0	0.24	µg/L	10.0	ND	79.1		70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.6*			µg/L	25.0		111		70-130			
Surrogate: Toluene-d8	*24.8*			µg/L	25.0		99.1		70-130			
Surrogate: 4-Bromofluorobenzene	*22.6*			µg/L	25.0		90.6		70-130			
Matrix Spike (B337731-MS2)		**Source: 23D1781-03**			Prepared: 04/20/23 Analyzed: 04/21/23							
Acetone	81.5	50	2.0	µg/L	100	ND	81.5		70-130			
Acrylonitrile	8.38	5.0	0.47	µg/L	10.0	ND	83.8		70-130			
tert-Amyl Methyl Ether (TAME)	8.79	0.50	0.13	µg/L	10.0	ND	87.9		70-130			
Benzene	9.13	1.0	0.18	µg/L	10.0	ND	91.3		70-130			
Bromobenzene	8.51	1.0	0.15	µg/L	10.0	ND	85.1		70-130			
Bromochloromethane	9.67	1.0	0.28	µg/L	10.0	ND	96.7		70-130			
Bromodichloromethane	9.24	0.50	0.16	µg/L	10.0	ND	92.4		70-130			
Bromoform UJ, MSL	6.77	1.0	0.41	µg/L	10.0	ND	**67.7**	*	70-130			MS-24
Bromomethane	8.12	2.0	1.3	µg/L	10.0	ND	81.2		70-130			
2-Butanone (MEK)	84.8	20	1.7	µg/L	100	ND	84.8		70-130			
tert-Butyl Alcohol (TBA) UJ, MSL	62.2	20	4.3	µg/L	100	ND	**62.2**	*	70-130			MS-24
n-Butylbenzene	8.44	1.0	0.15	µg/L	10.0	ND	84.4		70-130			
sec-Butylbenzene	8.84	1.0	0.13	µg/L	10.0	ND	88.4		70-130			
tert-Butylbenzene	8.60	1.0	0.14	µg/L	10.0	ND	86.0		70-130			
tert-Butyl Ethyl Ether (TBEE)	9.43	0.50	0.15	µg/L	10.0	ND	94.3		70-130			
Carbon Disulfide	86.3	5.0	1.6	µg/L	100	ND	86.3		70-130			

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
									70-130			
Batch B337731 - SW-846 5030B												
Matrix Spike (B337731-MS2)		**Source: 23D1781-03**			Prepared: 04/20/23 Analyzed: 04/21/23							
Carbon Tetrachloride	10.2	5.0	0.16	µg/L	10.0	ND	102		70-130			
Chlorobenzene	8.60	1.0	0.12	µg/L	10.0	ND	86.0		70-130			
Chlorodibromomethane	8.46	0.50	0.20	µg/L	10.0	ND	84.6		70-130			
Chloroethane	10.1	2.0	0.34	µg/L	10.0	ND	101		70-130			
Chloroform	9.23	2.0	0.14	µg/L	10.0	ND	92.3		70-130			
Chloromethane	8.79	2.0	0.50	µg/L	10.0	ND	87.9		70-130			
2-Chlorotoluene	8.82	1.0	0.15	µg/L	10.0	ND	88.2		70-130			
4-Chlorotoluene	8.52	1.0	0.15	µg/L	10.0	ND	85.2		70-130			
1,2-Dibromo-3-chloropropane (DBCP) UJ, MSL	3.50	5.0	0.85	µg/L	10.0	ND	**35.0**	*	70-130			MS-23, J
1,2-Dibromoethane (EDB)	9.02	0.50	0.16	µg/L	10.0	ND	90.2		70-130			
Dibromomethane	8.05	1.0	0.32	µg/L	10.0	ND	80.5		70-130			
1,2-Dichlorobenzene	8.81	1.0	0.13	µg/L	10.0	ND	88.1		70-130			
1,3-Dichlorobenzene	8.68	1.0	0.14	µg/L	10.0	ND	86.8		70-130			
1,4-Dichlorobenzene	8.09	1.0	0.13	µg/L	10.0	ND	80.9		70-130			
trans-1,4-Dichloro-2-butene UJ, MSL	4.80	2.0	1.5	µg/L	10.0	ND	**48.0**	*	70-130			MS-09
Dichlorodifluoromethane (Freon 12)	12.1	2.0	0.16	µg/L	10.0	ND	121		70-130			
1,1-Dichloroethane	9.22	1.0	0.14	µg/L	10.0	ND	92.2		70-130			
1,2-Dichloroethane	10.2	1.0	0.30	µg/L	10.0	ND	102		70-130			
1,1-Dichloroethylene	9.47	1.0	0.14	µg/L	10.0	ND	94.7		70-130			
cis-1,2-Dichloroethylene	9.23	1.0	0.14	µg/L	10.0	ND	92.3		70-130			
trans-1,2-Dichloroethylene	9.01	1.0	0.17	µg/L	10.0	ND	90.1		70-130			
1,2-Dichloropropane	9.48	1.0	0.19	µg/L	10.0	ND	94.8		70-130			
1,3-Dichloropropane	9.68	0.50	0.12	µg/L	10.0	ND	96.8		70-130			
2,2-Dichloropropane UJ, MSL	6.02	1.0	0.35	µg/L	10.0	ND	**60.2**	*	70-130			MS-09
1,1-Dichloropropene	9.45	2.0	0.15	µg/L	10.0	ND	94.5		70-130			
cis-1,3-Dichloropropene	8.20	0.50	0.16	µg/L	10.0	ND	82.0		70-130			
trans-1,3-Dichloropropene	7.75	0.50	0.14	µg/L	10.0	ND	77.5		70-130			
Diethyl Ether	9.36	2.0	0.14	µg/L	10.0	ND	93.6		70-130			
Diisopropyl Ether (DIPE)	9.76	0.50	0.20	µg/L	10.0	ND	97.6		70-130			
1,4-Dioxane	72.4	50	18	µg/L	100	ND	72.4		70-130			
Ethylbenzene	8.87	1.0	0.22	µg/L	10.0	ND	88.7		70-130			
Hexachlorobutadiene	8.70	0.60	0.47	µg/L	10.0	ND	87.0		70-130			
2-Hexanone (MBK)	71.1	10	1.2	µg/L	100	ND	71.1		70-130			
Isopropylbenzene (Cumene)	8.50	1.0	0.15	µg/L	10.0	ND	85.0		70-130			
p-Isopropyltoluene (p-Cymene)	8.51	1.0	0.13	µg/L	10.0	ND	85.1		70-130			
Methyl Acetate UJ, MSL	5.20	1.0	0.61	µg/L	10.0	ND	**52.0**	*	70-130			MS-09
Methyl tert-Butyl Ether (MTBE)	8.89	1.0	0.17	µg/L	10.0	ND	88.9		70-130			
Methyl Cyclohexane	10.2	1.0	0.16	µg/L	10.0	ND	102		70-130			
Methylene Chloride	9.11	5.0	0.18	µg/L	10.0	ND	91.1		70-130			
4-Methyl-2-pentanone (MIBK)	80.2	10	1.3	µg/L	100	ND	80.2		70-130			
Naphthalene UJ, MSL	5.04	2.0	0.38	µg/L	10.0	ND	**50.4**	*	70-130			MS-09
n-Propylbenzene	8.73	1.0	0.12	µg/L	10.0	ND	87.3		70-130			
Styrene	8.04	1.0	0.15	µg/L	10.0	ND	80.4		70-130			
1,1,1,2-Tetrachloroethane	8.98	1.0	0.16	µg/L	10.0	ND	89.8		70-130			
1,1,2,2-Tetrachloroethane	7.49	0.50	0.14	µg/L	10.0	ND	74.9		70-130			
Tetrachloroethylene	9.58	1.0	0.17	µg/L	10.0	ND	95.8		70-130			
Tetrahydrofuran	8.62	10	0.49	µg/L	10.0	ND	86.2		70-130			J
Toluene	9.48	1.0	0.22	µg/L	10.0	ND	94.8		70-130			
1,2,3-Trichlorobenzene UJ, MSL	6.57	5.0	0.34	µg/L	10.0	ND	**65.7**	*	70-130			MS-24
1,2,4-Trichlorobenzene UJ, MSL	6.85	1.0	0.30	µg/L	10.0	ND	**68.5**	*	70-130			MS-24

con-test® A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B337731 - SW-846 5030B													
Matrix Spike (B337731-MS2)	**Source: 23D1781-03**				Prepared: 04/20/23 Analyzed: 04/21/23								
1,3,5-Trichlorobenzene	8.71	1.0	0.21	µg/L	10.0	ND	87.1		70-130				
1,1,1-Trichloroethane	10.1	1.0	0.15	µg/L	10.0	ND	101		70-130				
1,1,2-Trichloroethane	8.99	1.0	0.19	µg/L	10.0	ND	89.9		70-130				
Trichloroethylene	9.36	1.0	0.17	µg/L	10.0	ND	93.6		70-130				
Trichlorofluoromethane (Freon 11)	9.73	2.0	0.15	µg/L	10.0	ND	97.3		70-130				
1,2,3-Trichloropropane	8.83	2.0	0.28	µg/L	10.0	ND	88.3		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.26	1.0	0.21	µg/L	10.0	ND	92.6		70-130				
1,2,4-Trimethylbenzene	8.39	1.0	0.20	µg/L	10.0	ND	83.9		70-130				
1,3,5-Trimethylbenzene	8.54	1.0	0.15	µg/L	10.0	ND	85.4		70-130				
Vinyl Chloride	10.9	2.0	0.24	µg/L	10.0	ND	109		70-130				
m+p Xylene	17.3	2.0	0.49	µg/L	20.0	ND	86.6		70-130				
o-Xylene	8.43	1.0	0.24	µg/L	10.0	ND	84.3		70-130				
Surrogate: 1,2-Dichloroethane-d4	*27.9*			µg/L	25.0		111		70-130				
Surrogate: Toluene-d8	*25.7*			µg/L	25.0		103		70-130				
Surrogate: 4-Bromofluorobenzene	*23.7*			µg/L	25.0		95.0		70-130				
Matrix Spike Dup (B337731-MSD1)	**Source: 23D1781-01**				Prepared: 04/20/23 Analyzed: 04/21/23								
Acetone	102	50	2.0	µg/L	100	ND	102		70-130	12.7		30	
Acrylonitrile	4.66	5.0	0.47	µg/L	10.0	ND	**46.6**	*	70-130	**62.7**	*	30	MS-23, J
tert-Amyl Methyl Ether (TAME)	9.56	0.50	0.13	µg/L	10.0	ND	95.6		70-130	4.93		30	
Benzene	9.22	1.0	0.18	µg/L	10.0	ND	92.2		70-130	0.217		30	
Bromobenzene	8.25	1.0	0.15	µg/L	10.0	ND	82.5		70-130	0.974		30	
Bromochloromethane	10.3	1.0	0.28	µg/L	10.0	ND	103		70-130	4.07		30	
Bromodichloromethane	9.08	0.50	0.16	µg/L	10.0	ND	90.8		70-130	1.64		30	
Bromoform	7.08	1.0	0.41	µg/L	10.0	ND	70.8		70-130	6.26		30	
Bromomethane	9.15	2.0	1.3	µg/L	10.0	ND	91.5		70-130	0.00		30	
2-Butanone (MEK)	107	20	1.7	µg/L	100	ND	107		70-130	14.5		30	
tert-Butyl Alcohol (TBA)	85.1	20	4.3	µg/L	100	ND	85.1		70-130	16.8		30	
n-Butylbenzene	8.54	1.0	0.15	µg/L	10.0	ND	85.4		70-130	8.42		30	
sec-Butylbenzene	8.72	1.0	0.13	µg/L	10.0	ND	87.2		70-130	5.18		30	
tert-Butylbenzene	8.58	1.0	0.14	µg/L	10.0	ND	85.8		70-130	5.26		30	
tert-Butyl Ethyl Ether (TBEE)	9.78	0.50	0.15	µg/L	10.0	ND	97.8		70-130	3.64		30	
Carbon Disulfide	86.7	5.0	1.6	µg/L	100	ND	86.7		70-130	4.35		30	
Carbon Tetrachloride	9.56	5.0	0.16	µg/L	10.0	ND	95.6		70-130	1.05		30	
Chlorobenzene	8.04	1.0	0.12	µg/L	10.0	ND	80.4		70-130	1.36		30	
Chlorodibromomethane	8.45	0.50	0.20	µg/L	10.0	ND	84.5		70-130	3.61		30	
Chloroethane	9.12	2.0	0.34	µg/L	10.0	ND	91.2		70-130	4.60		30	
Chloroform	9.27	2.0	0.14	µg/L	10.0	ND	92.7		70-130	1.41		30	
Chloromethane	9.10	2.0	0.50	µg/L	10.0	ND	91.0		70-130	6.82		30	
2-Chlorotoluene	8.19	1.0	0.15	µg/L	10.0	ND	81.9		70-130	6.56		30	
4-Chlorotoluene	8.29	1.0	0.15	µg/L	10.0	ND	82.9		70-130	3.69		30	
1,2-Dibromo-3-chloropropane (DBCP)	8.79	5.0	0.85	µg/L	10.0	ND	87.9		70-130	16.1		30	
1,2-Dibromoethane (EDB)	9.07	0.50	0.16	µg/L	10.0	ND	90.7		70-130	3.48		30	
Dibromomethane	9.08	1.0	0.32	µg/L	10.0	ND	90.8		70-130	5.08		30	
1,2-Dichlorobenzene	8.68	1.0	0.13	µg/L	10.0	ND	86.8		70-130	6.05		30	
1,3-Dichlorobenzene	8.58	1.0	0.14	µg/L	10.0	ND	85.8		70-130	6.87		30	
1,4-Dichlorobenzene	7.92	1.0	0.13	µg/L	10.0	ND	79.2		70-130	0.380		30	
trans-1,4-Dichloro-2-butene	7.31	2.0	1.5	µg/L	10.0	ND	73.1		70-130	10.8		30	
Dichlorodifluoromethane (Freon 12)	12.0	2.0	0.16	µg/L	10.0	ND	120		70-130	2.28		30	

UJ, MSL, MSRPD

RPD = 20

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
							70-130					
Batch B337731 - SW-846 5030B												
Matrix Spike Dup (B337731-MSD1)	**Source: 23D1781-01**				Prepared: 04/20/23 Analyzed: 04/21/23					RPD = 20		
1,1-Dichloroethane	9.55	1.0	0.14	µg/L	10.0	ND	95.5		70-130	3.73	30	
1,2-Dichloroethane	9.68	1.0	0.30	µg/L	10.0	ND	96.8		70-130	0.934	30	
1,1-Dichloroethylene	9.66	1.0	0.14	µg/L	10.0	ND	96.6		70-130	5.31	30	
cis-1,2-Dichloroethylene	14.1	1.0	0.14	µg/L	10.0	6.24	78.2		70-130	3.22	30	
trans-1,2-Dichloroethylene	9.11	1.0	0.17	µg/L	10.0	ND	91.1		70-130	5.18	30	
1,2-Dichloropropane	9.40	1.0	0.19	µg/L	10.0	ND	94.0		70-130	3.90	30	
1,3-Dichloropropane	9.63	0.50	0.12	µg/L	10.0	ND	96.3		70-130	3.92	30	
2,2-Dichloropropane UJ, MSL	6.23	1.0	0.35	µg/L	10.0	ND	**62.3**	*	70-130	0.644	30	MS-09
1,1-Dichloropropene	9.57	2.0	0.15	µg/L	10.0	ND	95.7		70-130	0.105	30	
cis-1,3-Dichloropropene	8.14	0.50	0.16	µg/L	10.0	ND	81.4		70-130	1.99	30	
trans-1,3-Dichloropropene	7.92	0.50	0.14	µg/L	10.0	ND	79.2		70-130	0.253	30	
Diethyl Ether	9.64	2.0	0.14	µg/L	10.0	ND	96.4		70-130	3.27	30	
Diisopropyl Ether (DIPE)	9.98	0.50	0.20	µg/L	10.0	ND	99.8		70-130	1.82	30	
1,4-Dioxane	89.6	50	18	µg/L	100	ND	89.6		70-130	15.2	30	
Ethylbenzene	8.55	1.0	0.22	µg/L	10.0	ND	85.5		70-130	4.67	30	
Hexachlorobutadiene	8.62	0.60	0.47	µg/L	10.0	ND	86.2		70-130	4.75	30	
2-Hexanone (MBK)	98.3	10	1.2	µg/L	100	ND	98.3		70-130	20.8	30	
Isopropylbenzene (Cumene)	8.18	1.0	0.15	µg/L	10.0	ND	81.8		70-130	2.73	30	
p-Isopropyltoluene (p-Cymene)	8.39	1.0	0.13	µg/L	10.0	ND	83.9		70-130	5.01	30	
Methyl Acetate UJ, MSL	6.17	1.0	0.61	µg/L	10.0	ND	**61.7**	*	70-130	7.05	30	MS-09
Methyl tert-Butyl Ether (MTBE)	9.52	1.0	0.17	µg/L	10.0	ND	95.2		70-130	3.64	30	
Methyl Cyclohexane	9.91	1.0	0.16	µg/L	10.0	ND	99.1		70-130	4.96	30	
Methylene Chloride	9.23	5.0	0.18	µg/L	10.0	0.230	90.0		70-130	4.09	30	
4-Methyl-2-pentanone (MIBK)	93.1	10	1.3	µg/L	100	ND	93.1		70-130	16.3	30	
Naphthalene UJ, MSL	5.84	2.0	0.38	µg/L	10.0	ND	**58.4**	*	70-130	21.6	30	MS-09
n-Propylbenzene	8.37	1.0	0.12	µg/L	10.0	ND	83.7		70-130	5.52	30	
Styrene	7.74	1.0	0.15	µg/L	10.0	ND	77.4		70-130	1.69	30	
1,1,1,2-Tetrachloroethane	8.50	1.0	0.16	µg/L	10.0	ND	85.0		70-130	0.472	30	
1,1,2,2-Tetrachloroethane	8.22	0.50	0.14	µg/L	10.0	ND	82.2		70-130	9.29	30	
Tetrachloroethylene J-, MSL	40.7	1.0	0.17	µg/L	10.0	35.9	**48.1**	*	70-130	11.7	30	MS-19
Tetrahydrofuran	10.2	10	0.49	µg/L	10.0	ND	102		70-130	3.68	30	
Toluene	8.98	1.0	0.22	µg/L	10.0	ND	89.8		70-130	4.32	30	
1,2,3-Trichlorobenzene UJ, MSL	6.92	5.0	0.34	µg/L	10.0	ND	**69.2**	*	70-130	16.6	30	MS-09
1,2,4-Trichlorobenzene	7.34	1.0	0.30	µg/L	10.0	ND	73.4		70-130	14.5	30	
1,3,5-Trichlorobenzene	8.80	1.0	0.21	µg/L	10.0	ND	88.0		70-130	4.77	30	
1,1,1-Trichloroethane	9.89	1.0	0.15	µg/L	10.0	ND	98.9		70-130	0.609	30	
1,1,2-Trichloroethane	9.11	1.0	0.19	µg/L	10.0	ND	91.1		70-130	1.55	30	
Trichloroethylene	11.9	1.0	0.17	µg/L	10.0	3.88	80.2		70-130	7.52	30	
Trichlorofluoromethane (Freon 11)	10.2	2.0	0.15	µg/L	10.0	ND	102		70-130	2.67	30	
1,2,3-Trichloropropane	10.3	2.0	0.28	µg/L	10.0	ND	103		70-130	10.2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.44	1.0	0.21	µg/L	10.0	ND	94.4		70-130	2.68	30	
1,2,4-Trimethylbenzene	8.10	1.0	0.20	µg/L	10.0	ND	81.0		70-130	2.63	30	
1,3,5-Trimethylbenzene	7.94	1.0	0.15	µg/L	10.0	ND	79.4		70-130	0.759	30	
Vinyl Chloride	12.4	2.0	0.24	µg/L	10.0	1.33	110		70-130	3.88	30	
m+p Xylene	16.8	2.0	0.49	µg/L	20.0	ND	83.8		70-130	4.51	20	
o-Xylene	8.14	1.0	0.24	µg/L	10.0	ND	81.4		70-130	2.87	30	
Surrogate: 1,2-Dichloroethane-d4	*28.3*			µg/L	25.0		113		70-130			
Surrogate: Toluene-d8	*24.5*			µg/L	25.0		98.2		70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*			µg/L	25.0		92.6		70-130			

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

70-130

rpd = 20

Batch B337731 - SW-846 5030B

Matrix Spike Dup (B337731-MSD2) **Source: 23D1781-03** Prepared: 04/20/23 Analyzed: 04/21/23

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Acetone	96.8	50	2.0	µg/L	100	ND	96.8		70-130	17.2		30	
Acrylonitrile	9.03	5.0	0.47	µg/L	10.0	ND	90.3		70-130	7.47		30	
tert-Amyl Methyl Ether (TAME)	9.41	0.50	0.13	µg/L	10.0	ND	94.1		70-130	6.81		30	
Benzene	9.21	1.0	0.18	µg/L	10.0	ND	92.1		70-130	0.872		30	
Bromobenzene	8.51	1.0	0.15	µg/L	10.0	ND	85.1		70-130	0.00		30	
Bromochloromethane	10.5	1.0	0.28	µg/L	10.0	ND	105		70-130	8.04		30	
Bromodichloromethane	9.49	0.50	0.16	µg/L	10.0	ND	94.9		70-130	2.67		30	
Bromoform	7.34	1.0	0.41	µg/L	10.0	ND	73.4		70-130	8.08		30	
Bromomethane	7.17	2.0	1.3	µg/L	10.0	ND	71.7		70-130	12.4		30	
2-Butanone (MEK)	98.6	20	1.7	µg/L	100	ND	98.6		70-130	15.1		30	
tert-Butyl Alcohol (TBA) J, MSL, MSRPD	79.1	20	4.3	µg/L	100	ND	79.1		70-130	23.9		30	
n-Butylbenzene	8.57	1.0	0.15	µg/L	10.0	ND	85.7		70-130	1.53		30	
sec-Butylbenzene	8.86	1.0	0.13	µg/L	10.0	ND	88.6		70-130	0.226		30	
tert-Butylbenzene	8.65	1.0	0.14	µg/L	10.0	ND	86.5		70-130	0.580		30	
tert-Butyl Ethyl Ether (TBEE)	9.75	0.50	0.15	µg/L	10.0	ND	97.5		70-130	3.34		30	
Carbon Disulfide	88.4	5.0	1.6	µg/L	100	ND	88.4		70-130	2.34		30	
Carbon Tetrachloride	10.1	5.0	0.16	µg/L	10.0	ND	101		70-130	1.28		30	
Chlorobenzene	8.31	1.0	0.12	µg/L	10.0	ND	83.1		70-130	3.43		30	
Chlorodibromomethane	8.61	0.50	0.20	µg/L	10.0	ND	86.1		70-130	1.76		30	
Chloroethane	9.59	2.0	0.34	µg/L	10.0	ND	95.9		70-130	5.38		30	
Chloroform	9.54	2.0	0.14	µg/L	10.0	ND	95.4		70-130	3.30		30	
Chloromethane	8.08	2.0	0.50	µg/L	10.0	ND	80.8		70-130	8.42		30	
2-Chlorotoluene	8.57	1.0	0.15	µg/L	10.0	ND	85.7		70-130	2.88		30	
4-Chlorotoluene	8.51	1.0	0.15	µg/L	10.0	ND	85.1		70-130	0.117		30	
1,2-Dibromo-3-chloropropane (DBCP) UJ, MSRPD	8.16	5.0	0.85	µg/L	10.0	ND	81.6		70-130	**79.9**	*	30	MS-23
1,2-Dibromoethane (EDB)	9.14	0.50	0.16	µg/L	10.0	ND	91.4		70-130	1.32		30	
Dibromomethane	8.97	1.0	0.32	µg/L	10.0	ND	89.7		70-130	10.8		30	
1,2-Dichlorobenzene	8.72	1.0	0.13	µg/L	10.0	ND	87.2		70-130	1.03		30	
1,3-Dichlorobenzene	8.63	1.0	0.14	µg/L	10.0	ND	86.3		70-130	0.578		30	
1,4-Dichlorobenzene	8.19	1.0	0.13	µg/L	10.0	ND	81.9		70-130	1.23		30	
trans-1,4-Dichloro-2-butene UJ, MSL	4.08	2.0	1.5	µg/L	10.0	ND	**40.8**	*	70-130	16.2		30	MS-09
Dichlorodifluoromethane (Freon 12)	12.1	2.0	0.16	µg/L	10.0	ND	121		70-130	0.496		30	
1,1-Dichloroethane	9.50	1.0	0.14	µg/L	10.0	ND	95.0		70-130	2.99		30	
1,2-Dichloroethane	9.94	1.0	0.30	µg/L	10.0	ND	99.4		70-130	2.19		30	
1,1-Dichloroethylene	9.79	1.0	0.14	µg/L	10.0	ND	97.9		70-130	3.32		30	
cis-1,2-Dichloroethylene	9.30	1.0	0.14	µg/L	10.0	ND	93.0		70-130	0.756		30	
trans-1,2-Dichloroethylene	9.08	1.0	0.17	µg/L	10.0	ND	90.8		70-130	0.774		30	
1,2-Dichloropropane	9.14	1.0	0.19	µg/L	10.0	ND	91.4		70-130	3.65		30	
1,3-Dichloropropane	9.53	0.50	0.12	µg/L	10.0	ND	95.3		70-130	1.56		30	
2,2-Dichloropropane UJ, MSL	6.46	1.0	0.35	µg/L	10.0	ND	**64.6**	*	70-130	7.05		30	MS-09
1,1-Dichloropropene	9.54	2.0	0.15	µg/L	10.0	ND	95.4		70-130	0.948		30	
cis-1,3-Dichloropropene	8.28	0.50	0.16	µg/L	10.0	ND	82.8		70-130	0.971		30	
trans-1,3-Dichloropropene	8.27	0.50	0.14	µg/L	10.0	ND	82.7		70-130	6.49		30	
Diethyl Ether	9.34	2.0	0.14	µg/L	10.0	ND	93.4		70-130	0.214		30	
Diisopropyl Ether (DIPE)	10.1	0.50	0.20	µg/L	10.0	ND	101		70-130	3.32		30	
1,4-Dioxane	79.9	50	18	µg/L	100	ND	79.9		70-130	9.94		30	
Ethylbenzene	8.87	1.0	0.22	µg/L	10.0	ND	88.7		70-130	0.00		30	
Hexachlorobutadiene	9.73	0.60	0.47	µg/L	10.0	ND	97.3		70-130	11.2		30	
2-Hexanone (MBK) sample ND, %R ok - no quals	91.2	10	1.2	µg/L	100	ND	91.2		70-130	24.8		30	
Isopropylbenzene (Cumene)	8.50	1.0	0.15	µg/L	10.0	ND	85.0		70-130	0.00		30	

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
							70-130					
Batch B337731 - SW-846 5030B												
Matrix Spike Dup (B337731-MSD2)	**Source: 23D1781-03**				Prepared: 04/20/23 Analyzed: 04/21/23							
p-Isopropyltoluene (p-Cymene)	8.61	1.0	0.13	µg/L	10.0	ND	86.1		70-130	1.17	30	
Methyl Acetate UJ, MSL	5.89	1.0	0.61	µg/L	10.0	ND	**58.9**	*	70-130	12.4	30	MS-09
Methyl tert-Butyl Ether (MTBE)	9.38	1.0	0.17	µg/L	10.0	ND	93.8		70-130	5.36	30	
Methyl Cyclohexane	9.69	1.0	0.16	µg/L	10.0	ND	96.9		70-130	4.74	30	
Methylene Chloride	9.68	5.0	0.18	µg/L	10.0	ND	96.8		70-130	6.07	30	
4-Methyl-2-pentanone (MIBK)	92.4	10	1.3	µg/L	100	ND	92.4		70-130	14.1	30	
Naphthalene UJ, MSL	5.49	2.0	0.38	µg/L	10.0	ND	**54.9**	*	70-130	8.55	30	MS-09
n-Propylbenzene	8.53	1.0	0.12	µg/L	10.0	ND	85.3		70-130	2.32	30	
Styrene	7.97	1.0	0.15	µg/L	10.0	ND	79.7		70-130	0.874	30	
1,1,1,2-Tetrachloroethane	8.89	1.0	0.16	µg/L	10.0	ND	88.9		70-130	1.01	30	
1,1,2,2-Tetrachloroethane	8.20	0.50	0.14	µg/L	10.0	ND	82.0		70-130	9.05	30	
Tetrachloroethylene	9.96	1.0	0.17	µg/L	10.0	ND	99.6		70-130	3.89	30	
Tetrahydrofuran	9.66	10	0.49	µg/L	10.0	ND	96.6		70-130	11.4	30	J
Toluene	9.43	1.0	0.22	µg/L	10.0	ND	94.3		70-130	0.529	30	
1,2,3-Trichlorobenzene	7.04	5.0	0.34	µg/L	10.0	ND	70.4		70-130	6.91	30	
1,2,4-Trichlorobenzene	7.42	1.0	0.30	µg/L	10.0	ND	74.2		70-130	7.99	30	
1,3,5-Trichlorobenzene	9.05	1.0	0.21	µg/L	10.0	ND	90.5		70-130	3.83	30	
1,1,1-Trichloroethane	9.94	1.0	0.15	µg/L	10.0	ND	99.4		70-130	1.70	30	
1,1,2-Trichloroethane	9.41	1.0	0.19	µg/L	10.0	ND	94.1		70-130	4.57	30	
Trichloroethylene	9.08	1.0	0.17	µg/L	10.0	ND	90.8		70-130	3.04	30	
Trichlorofluoromethane (Freon 11)	10.4	2.0	0.15	µg/L	10.0	ND	104		70-130	6.56	30	
1,2,3-Trichloropropane	9.38	2.0	0.28	µg/L	10.0	ND	93.8		70-130	6.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	1.0	0.21	µg/L	10.0	ND	97.7		70-130	5.36	30	
1,2,4-Trimethylbenzene	8.72	1.0	0.20	µg/L	10.0	ND	87.2		70-130	3.86	30	
1,3,5-Trimethylbenzene	8.36	1.0	0.15	µg/L	10.0	ND	83.6		70-130	2.13	30	
Vinyl Chloride	11.0	2.0	0.24	µg/L	10.0	ND	110		70-130	1.64	30	
m+p Xylene	17.6	2.0	0.49	µg/L	20.0	ND	87.8		70-130	1.43	20	
o-Xylene	8.27	1.0	0.24	µg/L	10.0	ND	82.7		70-130	1.92	30	
Surrogate: 1,2-Dichloroethane-d4	*28.5*			µg/L	25.0		114		70-130			
Surrogate: Toluene-d8	*25.7*			µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*23.4*			µg/L	25.0		93.7		70-130			

RPD < 50 - all within limits

Sample ID: 828120MW210015/DUP 828120

Compund	Result	LabQual	Dup	LabQual	RPD
cis-1,2-Dichloroethene	6.2		5.7		8.403361
Tetrachloroethene	36		36		0
Trichloroethene	3.9		3.3		16.66667
Vinyl chloride	1.3	J	1.4	J	7.407407

CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in October 2023 at Carriage Cleaners in Brighton, New York, and shipped to Con-test Analytical Laboratory located in East Longmeadow, Massachusetts, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

A completeness check was performed for monitored natural attenuation (MNA) parameters: total and dissolved iron and manganese, chloride, sulfate, nitrate, ethene, ethane, methane, alkalinity, sulfide, and total organic carbon. Results were reported in the following sample delivery group (SDG):

- 23J2804

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions.

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits

- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated
UJ = target analyte is not detected, value is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260D

Reporting limits for 1,4-dioxane in all field samples were qualified estimated (UJ) based on low recovery in the associated LCS/LCSD. Qualified results are included in Table 3 with reason code LCSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Reporting limits in a subset of samples are elevated due to dilutions as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Amber Jones

Date: December 21, 2023

Reviewed by: Julie Ricardi

Date: December 22, 2023

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Analysis Method		SW8260	SW6010	SW6010	E310.1	RSK 175	A5310B	E300	SM4500S-F
				Method Class		VOCs	Metals	Metals	Alkalinity	Dissolved Gases	TOC	Anions	Sulfide
				Fraction		N	T	D	T	D	T	T	T
Lab SDG	**Location**	**Field Sample ID**	**Media**	**Sample Date**	**Qc Code**	Count	Count	Count	Count	Count	Count	Count	Count
23J2804	EW-1	828120-EW-1-022	GW	10/19/2023	FS	51	2	1	1	3	1	3	1
23J2804	HA-114	828120-DUP-1	GW	10/19/2023	FD	51							
23J2804	HA-114	828120-HA-114-013	GW	10/19/2023	FS	51	2	1	1	3	1	3	1
23J2804	MW-111I	828120-MW-111I-027	GW	10/19/2023	FS	51	2	1	1	3	1	3	1
23J2804	MW-210	828120-DUP-2	GW	10/19/2023	FD	51							
23J2804	MW-210	828120-MW-210-015	GW	10/19/2023	FS	51	1	1	1	3	1	3	1
23J2804	MW-6	828120-MW-6-027	GW	10/19/2023	FS	51							
23J2804	MW-6B	828120-MW-6B-09	GW	10/19/2023	FS	51							
23J2804	MW-8B	828120-MW-8B-027	GW	10/19/2023	FS	51							
23J2804	MW-9	828120-MW-9-09	GW	10/19/2023	FS	51	2	1	1	3	1	3	1
23J2804	MW-9B	828120-MW-9B-017	GW	10/19/2023	FS	51							
23J2804	QC	828120-TB	BW	10/19/2023	TB	51							

Created by: KMS 12/7/2023
Checked by: ALJ 12/8/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

			Lab Sample Delivery Group	23J2804		23J2804		23J2804		23J2804	
			Location	EW-1		HA-114		HA-114		MW-111I	
			Sample Date	10/19/2023		10/19/2023		10/19/2023		10/19/2023	
			Sample ID	828120-EW-1-022		828120-DUP-1		828120-HA-114-013		828120-MW-111I-027	
			Qc Code	FS		FD		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,1,2-Trichloroethane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,1-Dichloroethane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,1-Dichloroethene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,2,3-Trichlorobenzene	N	ug/L	5	U	5	U	5	U	10	U
SW8260	1,2,4-Trichlorobenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	5	U	5	U	5	U	10	U
SW8260	1,2-Dibromoethane	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	1,2-Dichlorobenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,2-Dichloroethane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,2-Dichloropropane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,3-Dichlorobenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,4-Dichlorobenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	1,4-Dioxane	N	ug/L	50	UJ	50	UJ	50	UJ	100	UJ
SW8260	2-Butanone	N	ug/L	20	U	20	U	20	U	40	U
SW8260	2-Hexanone	N	ug/L	10	U	10	U	10	U	20	U
SW8260	4-Methyl-2-pentanone	N	ug/L	10	U	10	U	10	U	20	U
SW8260	Acetic acid, methyl ester	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Acetone	N	ug/L	50	U	50	U	50	U	100	U
SW8260	Benzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Bromochloromethane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Bromodichloromethane	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	Bromoform	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Bromomethane	N	ug/L	2	U	2	U	2	U	4	U
SW8260	Carbon disulfide	N	ug/L	5	U	5	U	5	U	10	U

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

			Lab Sample Delivery Group	23J2804		23J2804		23J2804		23J2804	
			Location	EW-1		HA-114		HA-114		MW-111I	
			Sample Date	10/19/2023		10/19/2023		10/19/2023		10/19/2023	
			Sample ID	828120-EW-1-022		828120-DUP-1		828120-HA-114-013		828120-MW-111I-027	
			Qc Code	FS		FD		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Carbon tetrachloride	N	ug/L	5	U	5	U	5	U	10	U
SW8260	Chlorobenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Chloroethane	N	ug/L	2	U	2	U	2	U	4	U
SW8260	Chloroform	N	ug/L	2	U	2	U	2	U	4	U
SW8260	Chloromethane	N	ug/L	2	U	2	U	2	U	4	U
SW8260	cis-1,2-Dichloroethene	N	ug/L	4.4		22		23		46	
SW8260	cis-1,3-Dichloropropene	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	Cyclohexane	N	ug/L	5	U	5	U	5	U	10	U
SW8260	Dibromochloromethane	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	Dichlorodifluoromethane	N	ug/L	2	U	2	U	2	U	4	U
SW8260	Ethylbenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Isopropylbenzene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Methyl cyclohexane	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Methyl Tertbutyl Ether	N	ug/L	1	U	1	U	1	U	0.4	J
SW8260	Methylene chloride	N	ug/L	5	U	5	U	5	U	10	U
SW8260	Styrene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	Tetrachloroethene	N	ug/L	69		120		120		76	
SW8260	Toluene	N	ug/L	1	U	1	U	1	U	2	U
SW8260	trans-1,2-Dichloroethene	N	ug/L	1	U	0.22	J	0.29	J	0.48	J
SW8260	trans-1,3-Dichloropropene	N	ug/L	0.5	U	0.5	U	0.5	U	1	U
SW8260	Trichloroethene	N	ug/L	4.9		23		23		19	
SW8260	Trichlorofluoromethane	N	ug/L	2	U	2	U	2	U	4	U
SW8260	Vinyl chloride	N	ug/L	0.78	J	1	J	1	J	9.8	
SW8260	Xylenes, Total	N	ug/L	1	U	1	U	1	U	2	U

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Lab Sample Delivery Group		23J2804		23J2804		23J2804		23J2804	
				Location		MW-210		MW-210		MW-6		MW-6B	
				Sample Date		10/19/2023		10/19/2023		10/19/2023		10/19/2023	
				Sample ID		828120-DUP-2		828120-MW-210-015		828120-MW-6-027		828120-MW-6B-09	
				Qc Code		FD		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
SW8260	1,1,1-Trichloroethane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L		0.5	U	0.5	U	5	U	25	U	
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,1,2-Trichloroethane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,1-Dichloroethane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,1-Dichloroethene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,2,3-Trichlorobenzene	N	ug/L		5	U	5	U	50	U	250	U	
SW8260	1,2,4-Trichlorobenzene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L		5	U	5	U	50	U	250	U	
SW8260	1,2-Dibromoethane	N	ug/L		0.5	U	0.5	U	5	U	25	U	
SW8260	1,2-Dichlorobenzene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,2-Dichloroethane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,2-Dichloropropane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,3-Dichlorobenzene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,4-Dichlorobenzene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	1,4-Dioxane	N	ug/L		50	UJ	50	UJ	500	UJ	2,500	UJ	
SW8260	2-Butanone	N	ug/L		20	U	20	U	200	U	1000	U	
SW8260	2-Hexanone	N	ug/L		10	U	10	U	100	U	500	U	
SW8260	4-Methyl-2-pentanone	N	ug/L		10	U	10	U	100	U	500	U	
SW8260	Acetic acid, methyl ester	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	Acetone	N	ug/L		50	U	50	U	500	U	2,500	U	
SW8260	Benzene	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	Bromochloromethane	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	Bromodichloromethane	N	ug/L		0.5	U	0.5	U	5	U	25	U	
SW8260	Bromoform	N	ug/L		1	U	1	U	10	U	50	U	
SW8260	Bromomethane	N	ug/L		2	U	2	U	20	U	100	U	
SW8260	Carbon disulfide	N	ug/L		5	U	5	U	50	U	250	U	

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Lab Sample Delivery Group	23J2804		23J2804		23J2804		23J2804	
				Location	MW-210		MW-210		MW-6		MW-6B	
				Sample Date	10/19/2023		10/19/2023		10/19/2023		10/19/2023	
				Sample ID	828120-DUP-2		828120-MW-210-015		828120-MW-6-027		828120-MW-6B-09	
				Qc Code	FD		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Carbon tetrachloride	N	ug/L		5	U	5	U	50	U	250	U
SW8260	Chlorobenzene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Chloroethane	N	ug/L		2	U	2	U	20	U	100	U
SW8260	Chloroform	N	ug/L		2	U	2	U	20	U	100	U
SW8260	Chloromethane	N	ug/L		2	U	2	U	20	U	100	U
SW8260	cis-1,2-Dichloroethene	N	ug/L		13		13		29		12	J
SW8260	cis-1,3-Dichloropropene	N	ug/L		0.5	U	0.5	U	5	U	25	U
SW8260	Cyclohexane	N	ug/L		5	U	5	U	50	U	250	U
SW8260	Dibromochloromethane	N	ug/L		0.5	U	0.5	U	5	U	25	U
SW8260	Dichlorodifluoromethane	N	ug/L		2	U	2	U	20	U	100	U
SW8260	Ethylbenzene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Isopropylbenzene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Methyl cyclohexane	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Methyl Tertbutyl Ether	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Methylene chloride	N	ug/L		5	U	5	U	50	U	250	U
SW8260	Styrene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	Tetrachloroethene	N	ug/L		46		47		400		3,200	
SW8260	Toluene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	trans-1,2-Dichloroethene	N	ug/L		1	U	1	U	10	U	50	U
SW8260	trans-1,3-Dichloropropene	N	ug/L		0.5	U	0.5	U	5	U	25	U
SW8260	Trichloroethene	N	ug/L		8.8		9.1		30		50	U
SW8260	Trichlorofluoromethane	N	ug/L		2	U	2	U	20	U	100	U
SW8260	Vinyl chloride	N	ug/L		1.6	J	1.4	J	2.8	J	100	U
SW8260	Xylenes, Total	N	ug/L		1	U	1	U	10	U	50	U

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Lab Sample Delivery Group		23J2804		23J2804		23J2804		23J2804	
				Location		MW-8B		MW-9		MW-9B		QC	
				Sample Date		10/19/2023		10/19/2023		10/19/2023		10/19/2023	
				Sample ID		828120-MW-8B-027		828120-MW-9-09		828120-MW-9B-017		828120-TB	
				Qc Code		FS		FS		FS		TB	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	2	U	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,1,2-Trichloroethane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,1-Dichloroethene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,2,3-Trichlorobenzene	N	ug/L	20	U	5	U	5	U	5	U
SW8260	1,2,4-Trichlorobenzene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	20	U	5	U	5	U	5	U
SW8260	1,2-Dibromoethane	N	ug/L	2	U	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,4-Dichlorobenzene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	1,4-Dioxane	N	ug/L	200	UJ	50	UJ	50	UJ	50	UJ
SW8260	2-Butanone	N	ug/L	80	U	20	U	20	U	20	U
SW8260	2-Hexanone	N	ug/L	40	U	10	U	10	U	10	U
SW8260	4-Methyl-2-pentanone	N	ug/L	40	U	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	N	ug/L	4	U	1	U	1	U	1	U
SW8260	Acetone	N	ug/L	200	U	50	U	50	U	50	U
SW8260	Benzene	N	ug/L	4	U	1	U	1	U	1	U
SW8260	Bromochloromethane	N	ug/L	4	U	1	U	1	U	1	U
SW8260	Bromodichloromethane	N	ug/L	2	U	0.5	U	0.5	U	0.5	U
SW8260	Bromoform	N	ug/L	4	U	1	U	1	U	1	U
SW8260	Bromomethane	N	ug/L	8	U	2	U	2	U	2	U
SW8260	Carbon disulfide	N	ug/L	20	U	5	U	5	U	5	U

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Lab Sample Delivery Group		23J2804		23J2804		23J2804		23J2804	
				Location		MW-8B		MW-9		MW-9B		QC	
				Sample Date		10/19/2023		10/19/2023		10/19/2023		10/19/2023	
				Sample ID		828120-MW-8B-027		828120-MW-9-09		828120-MW-9B-017		828120-TB	
				Qc Code		FS		FS		FS		TB	
Method	**Parameter**	**Fraction**	**Units**		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	Carbon tetrachloride	N	ug/L		20	U	5	U	5	U	5	U
SW8260	Chlorobenzene	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Chloroethane	N	ug/L		8	U	2	U	2	U	2	U
SW8260	Chloroform	N	ug/L		8	U	2	U	2	U	2	U
SW8260	Chloromethane	N	ug/L		8	U	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	N	ug/L		230		1	U	1	U	1	U
SW8260	cis-1,3-Dichloropropene	N	ug/L		2	U	0.5	U	0.5	U	0.5	U
SW8260	Cyclohexane	N	ug/L		20	U	5	U	5	U	5	U
SW8260	Dibromochloromethane	N	ug/L		2	U	0.5	U	0.5	U	0.5	U
SW8260	Dichlorodifluoromethane	N	ug/L		8	U	2	U	2	U	2	U
SW8260	Ethylbenzene	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Isopropylbenzene	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Methyl cyclohexane	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Methyl Tertbutyl Ether	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Methylene chloride	N	ug/L		20	U	5	U	5	U	5	U
SW8260	Styrene	N	ug/L		4	U	1	U	1	U	1	U
SW8260	Tetrachloroethene	N	ug/L		300		7.4		5.7		1	U
SW8260	Toluene	N	ug/L		4	U	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	N	ug/L		1	J	1	U	1	U	1	U
SW8260	trans-1,3-Dichloropropene	N	ug/L		2	U	0.5	U	0.5	U	0.5	U
SW8260	Trichloroethene	N	ug/L		130		0.38	J	1	U	1	U
SW8260	Trichlorofluoromethane	N	ug/L		8	U	2	U	2	U	2	U
SW8260	Vinyl chloride	N	ug/L		20		2	U	2	U	2	U
SW8260	Xylenes, Total	N	ug/L		4	U	1	U	1	U	1	U

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

TABLE 2 - SUMMARY ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Lab Sample Delivery Group		23J2804		23J2804		23J2804		23J2804		23J2804	
				Location		EW-1		HA-114		MW-111I		MW-210		MW-9	
				Sample Date		10/19/2023		10/19/2023		10/19/2023		10/19/2023		10/19/2023	
				Sample ID		828120-EW-1-022		828120-HA-114-013		828120-MW-111I-027		828120-MW-210-015		828120-MW-9-09	
				Qc Code		FS		FS		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW6010	Iron	T	mg/L	0.05	U	0.34		0.12				0.05	U
SW6010	Manganese	T	mg/L	0.01	U	0.055		0.15		0.086		0.14	
SW6010	Iron	D	mg/L	0.05	U	0.05	U	0.05	U	0.27		0.05	U
E310.1	Alkalinity, pH of 4.5	T	mg/L	340		460		390		370		570	
RSK 175	Ethane	D	mg/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
RSK 175	Ethene	D	mg/L	0.017	U	0.017	U	0.017	U	0.017	U	0.017	U
RSK 175	Methane	D	mg/L	0.007	U	0.0016	J	0.0029	J	0.0031	J	0.007	U
A5310B	Total Organic Carbon	T	mg/L	4.3		5.8		5.3		2.6		27	
E300	Chloride	T	mg/L	88		420		190		140		510	
E300	Nitrate as N	T	mg/L	0.53		0.7		0.1	U	0.1	U	2.7	
E300	Sulfate	T	mg/L	31		53		69		54		91	
SM4500S-F	Sulfide	T	mg/L	2	U	2	U	2	U	2	U	2	U

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Analysis Method	Location	Field Sample ID	Lab Sample ID	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
23J2804	SW8260	MW-210	828120-MW-210-015	23J2804-01	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	MW-210	828120-DUP-2	23J2804-02	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	HA-114	828120-HA-114-013	23J2804-03	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	HA-114	828120-DUP-1	23J2804-04	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	MW-9	828120-MW-9-09	23J2804-05	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	MW-9B	828120-MW-9B-017	23J2804-06	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	MW-6B	828120-MW-6B-09	23J2804-07	N	1,4-Dioxane	2,500	U	2,500	UJ	LCSL	ug/L
23J2804	SW8260	MW-6	828120-MW-6-027	23J2804-08	N	1,4-Dioxane	500	U	500	UJ	LCSL	ug/L
23J2804	SW8260	MW-8B	828120-MW-8B-027	23J2804-09	N	1,4-Dioxane	200	U	200	UJ	LCSL	ug/L
23J2804	SW8260	MW-111I	828120-MW-111I-027	23J2804-10	N	1,4-Dioxane	100	U	100	UJ	LCSL	ug/L
23J2804	SW8260	EW-1	828120-EW-1-022	23J2804-11	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L
23J2804	SW8260	QC	828120-TB	23J2804-12	N	1,4-Dioxane	50	U	50	UJ	LCSL	ug/L

Created by: KMS 12/20/2023
Checked by: ALJ 12/21/2023

CATEGORY A REVIEW
OCTOBER 2023 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Carriage Cleaners October 2023
Method : SW-846 8260C (or specify)
Laboratory: Pace **SDG(s):** 23J2804
Date: 12/8/2023
Reviewer: Amber Jones
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? yes, see attached

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO
   see attached - no quals

   Were all results within above QC limits? YES NO NA (circle one)
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one) see attached - 1,4-dioxane - UJ, LCSL

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   elevated RLs for ND

9. ☑ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

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

EPA 300.0

Qualifications:

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

Nitrate as N
23J2804-01[828120-MW-210-01S], B355864-MS1, B355864-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride
23J2804-03[828120- HA-114-013], B356762-MS1, B356762-MSD1

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloride
23J2804-01[828120-MW-210-01S], B355865-MS1, B355865-MSD1

Sulfate
23J2804-01[828120-MW-210-01S], 23J2804-03[828120- HA-114-013], B355865-MS1, B355865-MSD1, B356410-MS1, B356410-MSD1

Z-01

Samples analyzed past recommended holding time due to instrument error

Analyte & Samples(s) Qualified:

Nitrate as N
23J2804-03[828120- HA-114-013], 23J2804-05[828120-MW-9-09], 23J2804-10[828120-MW-111I-027], 23J2804-11[828120-EW-1-022]

SM 21-23 5310B

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Total Organic Carbon
23J2804-01[828120-MW-210-01S], B357019-MS2, B357019-MSD2

SM21-23 2320B

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Alkalinity to pH 4.5
23J2804-01[828120-MW-210-01S], B356815-MSD1

SW-846 8260D

Qualifications:

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

see attached for MS/MSD review

Analyte & Samples(s) Qualified:

Bromomethane
B356071-MSD2

Tetrachloroethylene
B356071-MSD3

con-test® A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B356071 - SW-846 5030B												
Blank (B356071-BLK1)					Prepared & Analyzed: 10/24/23							
Vinyl Chloride	ND	2.0	0.24	µg/L								
m+p Xylene	ND	2.0	0.49	µg/L								
o-Xylene	ND	1.0	0.24	µg/L								
Xylenes (total)	ND	1.0	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.3*			µg/L	25.0		97.1	70-130				
Surrogate: Toluene-d8	*23.3*			µg/L	25.0		93.4	70-130				
Surrogate: 4-Bromofluorobenzene	*20.9*			µg/L	25.0		83.6	70-130				
LCS (B356071-BS1)					Prepared & Analyzed: 10/24/23			70-130				
Acetone	83.3	50	2.0	µg/L	100		83.3	70-160				†
Benzene	11.2	1.0	0.18	µg/L	10.0		112	70-130				
Bromochloromethane	11.7	1.0	0.28	µg/L	10.0		117	70-130				
Bromodichloromethane	9.77	0.50	0.16	µg/L	10.0		97.7	70-130				
Bromoform	8.24	1.0	0.41	µg/L	10.0		82.4	70-130				
Bromomethane	13.0	2.0	1.3	µg/L	10.0		130	40-160				†
2-Butanone (MEK)	92.7	20	1.7	µg/L	100		92.7	40-160				†
Carbon Disulfide	103	5.0	1.6	µg/L	100		103	70-130				
Carbon Tetrachloride	10.2	5.0	0.16	µg/L	10.0		102	70-130				
Chlorobenzene	10.7	1.0	0.12	µg/L	10.0		107	70-130				
Chlorodibromomethane	9.24	0.50	0.20	µg/L	10.0		92.4	70-130				
Chloroethane	9.99	2.0	0.34	µg/L	10.0		99.9	70-130				
Chloroform	10.4	2.0	0.14	µg/L	10.0		104	70-130				
Chloromethane	10.7	2.0	0.50	µg/L	10.0		107	40-160				†
Cyclohexane	10.1	5.0	1.8	µg/L	10.0		101	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.48	5.0	0.85	µg/L	10.0		84.8	70-130				
1,2-Dibromoethane (EDB)	9.64	0.50	0.16	µg/L	10.0		96.4	70-130				
1,2-Dichlorobenzene	10.4	1.0	0.13	µg/L	10.0		104	70-130				
1,3-Dichlorobenzene	10.2	1.0	0.14	µg/L	10.0		102	70-130				
1,4-Dichlorobenzene	10.0	1.0	0.13	µg/L	10.0		100	70-130				
Dichlorodifluoromethane (Freon 12)	11.6	2.0	0.16	µg/L	10.0		116	40-160				†
1,1-Dichloroethane	10.6	1.0	0.14	µg/L	10.0		106	70-130				
1,2-Dichloroethane	10.1	1.0	0.30	µg/L	10.0		101	70-130				
1,1-Dichloroethylene	9.61	1.0	0.14	µg/L	10.0		96.1	70-130				
cis-1,2-Dichloroethylene	10.4	1.0	0.14	µg/L	10.0		104	70-130				
trans-1,2-Dichloroethylene	9.80	1.0	0.17	µg/L	10.0		98.0	70-130				
1,2-Dichloropropane	11.0	1.0	0.19	µg/L	10.0		110	70-130				
cis-1,3-Dichloropropene	9.87	0.50	0.16	µg/L	10.0		98.7	70-130				
trans-1,3-Dichloropropene	9.29	0.50	0.14	µg/L	10.0		92.9	70-130				
1,4-Dioxane UJ, LCSL	66.9	50	18	µg/L	100		66.9	40-130			V-05	†
Ethylbenzene	10.1	1.0	0.22	µg/L	10.0		101	70-130				
2-Hexanone (MBK)	77.3	10	1.2	µg/L	100		77.3	70-160			V-05	†
Isopropylbenzene (Cumene)	9.43	1.0	0.15	µg/L	10.0		94.3	70-130				
Methyl Acetate	11.3	1.0	0.61	µg/L	10.0		113	70-130				
Methyl tert-Butyl Ether (MTBE)	9.19	1.0	0.17	µg/L	10.0		91.9	70-130				
Methyl Cyclohexane	10.2	1.0	0.16	µg/L	10.0		102	70-130				
Methylene Chloride	10.2	5.0	0.18	µg/L	10.0		102	70-130				
4-Methyl-2-pentanone (MIBK)	81.8	10	1.3	µg/L	100		81.8	70-160				†
Styrene	9.70	1.0	0.15	µg/L	10.0		97.0	70-130				
1,1,2,2-Tetrachloroethane	9.51	0.50	0.14	µg/L	10.0		95.1	70-130				
Tetrachloroethylene	10.2	1.0	0.17	µg/L	10.0		102	70-130				

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B356071 - SW-846 5030B												
LCS (B356071-BS1)					Prepared & Analyzed: 10/24/23							
Toluene	10.3	1.0	0.22	µg/L	10.0		103	70-130				
1,2,3-Trichlorobenzene	8.75	5.0	0.34	µg/L	10.0		87.5	70-130				
1,2,4-Trichlorobenzene	7.97	1.0	0.30	µg/L	10.0		79.7	70-130				
1,1,1-Trichloroethane	10.3	1.0	0.15	µg/L	10.0		103	70-130				
1,1,2-Trichloroethane	10.2	1.0	0.19	µg/L	10.0		102	70-130				
Trichloroethylene	10.4	1.0	0.17	µg/L	10.0		104	70-130				
Trichlorofluoromethane (Freon 11)	10.3	2.0	0.15	µg/L	10.0		103	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.60	1.0	0.21	µg/L	10.0		96.0	70-130				
Vinyl Chloride	11.5	2.0	0.24	µg/L	10.0		115	40-160				†
m+p Xylene	20.2	2.0	0.49	µg/L	20.0		101	70-130				
o-Xylene	9.68	1.0	0.24	µg/L	10.0		96.8	70-130				
Xylenes (total)	29.8	1.0	1.0	µg/L	30.0		99.5	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.0*			µg/L	25.0		99.8	70-130				
Surrogate: Toluene-d8	*24.4*			µg/L	25.0		97.5	70-130				
Surrogate: 4-Bromofluorobenzene	*23.5*			µg/L	25.0		93.9	70-130				
LCS Dup (B356071-BSD1)					Prepared & Analyzed: 10/24/23			70-130				
Acetone	85.0	50	2.0	µg/L	100		85.0	70-160	2.04	25		†
Benzene	11.7	1.0	0.18	µg/L	10.0		117	70-130	4.29	25		
Bromochloromethane	11.9	1.0	0.28	µg/L	10.0		119	70-130	1.70	25		
Bromodichloromethane	10.3	0.50	0.16	µg/L	10.0		103	70-130	5.67	25		
Bromoform	8.80	1.0	0.41	µg/L	10.0		88.0	70-130	6.57	25		
Bromomethane high bias, samples ND - no quals	13.7	2.0	1.3	µg/L	10.0		137	40-160	5.11	25		†
2-Butanone (MEK)	98.4	20	1.7	µg/L	100		98.4	40-160	6.02	25		†
Carbon Disulfide	107	5.0	1.6	µg/L	100		107	70-130	3.46	25		
Carbon Tetrachloride	10.7	5.0	0.16	µg/L	10.0		107	70-130	4.70	25		
Chlorobenzene	11.1	1.0	0.12	µg/L	10.0		111	70-130	3.76	25		
Chlorodibromomethane	9.21	0.50	0.20	µg/L	10.0		92.1	70-130	0.325	25		
Chloroethane	10.9	2.0	0.34	µg/L	10.0		109	70-130	8.90	25		
Chloroform	10.9	2.0	0.14	µg/L	10.0		109	70-130	4.13	25		
Chloromethane	10.7	2.0	0.50	µg/L	10.0		107	40-160	0.373	25		†
Cyclohexane	10.4	5.0	1.8	µg/L	10.0		104	70-130	2.74	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.11	5.0	0.85	µg/L	10.0		91.1	70-130	7.16	25		
1,2-Dibromoethane (EDB)	10.2	0.50	0.16	µg/L	10.0		102	70-130	5.55	25		
1,2-Dichlorobenzene	10.7	1.0	0.13	µg/L	10.0		107	70-130	2.65	25		
1,3-Dichlorobenzene	10.9	1.0	0.14	µg/L	10.0		109	70-130	7.40	25		
1,4-Dichlorobenzene	10.4	1.0	0.13	µg/L	10.0		104	70-130	3.81	25		
Dichlorodifluoromethane (Freon 12)	12.2	2.0	0.16	µg/L	10.0		122	40-160	4.95	25		†
1,1-Dichloroethane	11.0	1.0	0.14	µg/L	10.0		110	70-130	4.26	25		
1,2-Dichloroethane	10.5	1.0	0.30	µg/L	10.0		105	70-130	4.38	25		
1,1-Dichloroethylene	10.2	1.0	0.14	µg/L	10.0		102	70-130	5.96	25		
cis-1,2-Dichloroethylene	10.5	1.0	0.14	µg/L	10.0		105	70-130	1.15	25		
trans-1,2-Dichloroethylene	10.2	1.0	0.17	µg/L	10.0		102	70-130	4.29	25		
1,2-Dichloropropane	11.2	1.0	0.19	µg/L	10.0		112	70-130	1.35	25		
cis-1,3-Dichloropropene	10.0	0.50	0.16	µg/L	10.0		100	70-130	1.81	25		
trans-1,3-Dichloropropene	9.73	0.50	0.14	µg/L	10.0		97.3	70-130	4.63	25		
1,4-Dioxane	80.2	50	18	µg/L	100		80.2	40-130	18.0	50	V-05	† ‡
Ethylbenzene	10.4	1.0	0.22	µg/L	10.0		104	70-130	3.31	25		
2-Hexanone (MBK)	83.2	10	1.2	µg/L	100		83.2	70-160	7.32	25	V-05	†

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B356071 - SW-846 5030B												
Matrix Spike Dup (B356071-MSD2)		**Source: 23J2804-01**			Prepared: 10/24/23 Analyzed: 10/25/23				70-130			
Acetone	86.4	50	2.0	µg/L	100	ND	86.4		70-130	0.266	30	
Benzene	11.8	1.0	0.18	µg/L	10.0	ND	118		70-130	2.42	30	
Bromochloromethane	11.7	1.0	0.28	µg/L	10.0	ND	117		70-130	0.428	30	
Bromodichloromethane	10.5	0.50	0.16	µg/L	10.0	ND	105		70-130	0.569	30	
Bromoform	8.55	1.0	0.41	µg/L	10.0	ND	85.5		70-130	4.01	30	
Bromomethane high bias, sample ND - no quals	13.1	2.0	1.3	µg/L	10.0	ND	**131**	*	70-130	0.917	30	MS-24
2-Butanone (MEK)	99.8	20	1.7	µg/L	100	ND	99.8		70-130	0.502	30	
Carbon Disulfide	108	5.0	1.6	µg/L	100	ND	108		70-130	0.176	30	
Carbon Tetrachloride	11.0	5.0	0.16	µg/L	10.0	ND	110		70-130	3.93	30	
Chlorobenzene	11.4	1.0	0.12	µg/L	10.0	ND	114		70-130	0.351	30	
Chlorodibromomethane	9.71	0.50	0.20	µg/L	10.0	ND	97.1		70-130	0.931	30	
Chloroethane	10.4	2.0	0.34	µg/L	10.0	ND	104		70-130	3.61	30	
Chloroform	11.3	2.0	0.14	µg/L	10.0	ND	113		70-130	1.52	30	
Chloromethane	10.8	2.0	0.50	µg/L	10.0	ND	108		70-130	3.83	30	
Cyclohexane	11.0	5.0	1.8	µg/L	10.0	ND	110		70-130	2.42	30	
1,2-Dibromo-3-chloropropane (DBCP)	9.02	5.0	0.85	µg/L	10.0	ND	90.2		70-130	2.84	30	
1,2-Dibromoethane (EDB)	10.0	0.50	0.16	µg/L	10.0	ND	100		70-130	0.596	30	
1,2-Dichlorobenzene	11.2	1.0	0.13	µg/L	10.0	ND	112		70-130	0.539	30	
1,3-Dichlorobenzene	11.0	1.0	0.14	µg/L	10.0	ND	110		70-130	0.451	30	
1,4-Dichlorobenzene	10.7	1.0	0.13	µg/L	10.0	ND	107		70-130	1.51	30	
Dichlorodifluoromethane (Freon 12)	9.59	2.0	0.16	µg/L	10.0	ND	95.9		70-130	0.312	30	
1,1-Dichloroethane	11.1	1.0	0.14	µg/L	10.0	ND	111		70-130	1.43	30	
1,2-Dichloroethane	10.3	1.0	0.30	µg/L	10.0	ND	103		70-130	0.677	30	
1,1-Dichloroethylene	10.6	1.0	0.14	µg/L	10.0	ND	106		70-130	0.659	30	
cis-1,2-Dichloroethylene	23.7	1.0	0.14	µg/L	10.0	12.9	109		70-130	1.34	30	
trans-1,2-Dichloroethylene	10.3	1.0	0.17	µg/L	10.0	ND	103		70-130	2.67	30	
1,2-Dichloropropane	11.0	1.0	0.19	µg/L	10.0	ND	110		70-130	1.89	30	
cis-1,3-Dichloropropene	9.56	0.50	0.16	µg/L	10.0	ND	95.6		70-130	1.87	30	
trans-1,3-Dichloropropene	9.18	0.50	0.14	µg/L	10.0	ND	91.8		70-130	0.651	30	
1,4-Dioxane	87.9	50	18	µg/L	100	ND	87.9		70-130	12.1	30	V-05
Ethylbenzene	10.8	1.0	0.22	µg/L	10.0	ND	108		70-130	1.38	30	
2-Hexanone (MBK)	85.8	10	1.2	µg/L	100	ND	85.8		70-130	3.26	30	V-05
Isopropylbenzene (Cumene)	10.1	1.0	0.15	µg/L	10.0	ND	101		70-130	1.08	30	
Methyl Acetate	8.58	1.0	0.61	µg/L	10.0	ND	85.8		70-130	6.87	30	
Methyl tert-Butyl Ether (MTBE)	9.72	1.0	0.17	µg/L	10.0	ND	97.2		70-130	0.930	30	
Methyl Cyclohexane	11.1	1.0	0.16	µg/L	10.0	ND	111		70-130	0.452	30	
Methylene Chloride	10.3	5.0	0.18	µg/L	10.0	ND	103		70-130	0.580	30	
4-Methyl-2-pentanone (MIBK)	86.9	10	1.3	µg/L	100	ND	86.9		70-130	1.47	30	
Styrene	10.2	1.0	0.15	µg/L	10.0	ND	102		70-130	0.690	30	
1,1,2,2-Tetrachloroethane	10.3	0.50	0.14	µg/L	10.0	ND	103		70-130	1.36	30	
Tetrachloroethylene	59.7	1.0	0.17	µg/L	10.0	47.5	122		70-130	3.58	30	
Toluene	10.7	1.0	0.22	µg/L	10.0	ND	107		70-130	1.12	30	
1,2,3-Trichlorobenzene	9.03	5.0	0.34	µg/L	10.0	ND	90.3		70-130	1.45	30	
1,2,4-Trichlorobenzene	8.24	1.0	0.30	µg/L	10.0	ND	82.4		70-130	4.85	30	
1,1,1-Trichloroethane	11.3	1.0	0.15	µg/L	10.0	ND	113		70-130	0.355	30	
1,1,2-Trichloroethane	10.2	1.0	0.19	µg/L	10.0	ND	102		70-130	4.60	30	
Trichloroethylene	20.4	1.0	0.17	µg/L	10.0	9.09	113		70-130	0.688	30	
Trichlorofluoromethane (Freon 11)	10.8	2.0	0.15	µg/L	10.0	ND	108		70-130	3.46	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	0.21	µg/L	10.0	ND	106		70-130	0.567	30	

con-test®
A Pace Analytical® Laboratory

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B356071 - SW-846 5030B												
Matrix Spike Dup (B356071-MSD2)		**Source: 23J2804-01**			Prepared: 10/24/23 Analyzed: 10/25/23							
Vinyl Chloride	13.8	2.0	0.24	µg/L	10.0	1.39	124		70-130	2.43	30	
m+p Xylene	21.6	2.0	0.49	µg/L	20.0	ND	108		70-130	0.509	20	
o-Xylene	9.96	1.0	0.24	µg/L	10.0	ND	99.6		70-130	2.28	30	
Xylenes (total)	31.5	1.0	1.0	µg/L	30.0	ND	105		0-200	1.07		
Surrogate: 1,2-Dichloroethane-d4	*25.0*			µg/L	25.0		100		70-130			
Surrogate: Toluene-d8	*24.1*			µg/L	25.0		96.5		70-130			
Surrogate: 4-Bromofluorobenzene	*23.6*			µg/L	25.0		94.2		70-130			
Matrix Spike Dup (B356071-MSD3)		**Source: 23J2804-03**			Prepared: 10/24/23 Analyzed: 10/25/23							
Acetone	81.2	50	2.0	µg/L	100	ND	81.2		70-130	3.46	30	
Benzene	11.4	1.0	0.18	µg/L	10.0	ND	114		70-130	1.41	30	
Bromochloromethane	11.7	1.0	0.28	µg/L	10.0	ND	117		70-130	1.38	30	
Bromodichloromethane	9.89	0.50	0.16	µg/L	10.0	ND	98.9		70-130	1.80	30	
Bromoform	8.21	1.0	0.41	µg/L	10.0	ND	82.1		70-130	1.45	30	
Bromomethane	12.6	2.0	1.3	µg/L	10.0	ND	126		70-130	0.239	30	
2-Butanone (MEK)	90.4	20	1.7	µg/L	100	ND	90.4		70-130	6.04	30	
Carbon Disulfide	101	5.0	1.6	µg/L	100	ND	101		70-130	0.903	30	
Carbon Tetrachloride	11.0	5.0	0.16	µg/L	10.0	ND	110		70-130	4.10	30	
Chlorobenzene	10.7	1.0	0.12	µg/L	10.0	ND	107		70-130	1.39	30	
Chlorodibromomethane	9.20	0.50	0.20	µg/L	10.0	ND	92.0		70-130	0.218	30	
Chloroethane	10.1	2.0	0.34	µg/L	10.0	ND	101		70-130	5.31	30	
Chloroform	10.4	2.0	0.14	µg/L	10.0	ND	104		70-130	2.46	30	
Chloromethane	10.2	2.0	0.50	µg/L	10.0	ND	102		70-130	0.293	30	
Cyclohexane	10.5	5.0	1.8	µg/L	10.0	ND	105		70-130	0.850	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.29	5.0	0.85	µg/L	10.0	ND	82.9		70-130	11.4	30	
1,2-Dibromoethane (EDB)	9.81	0.50	0.16	µg/L	10.0	ND	98.1		70-130	0.409	30	
1,2-Dichlorobenzene	10.2	1.0	0.13	µg/L	10.0	ND	102		70-130	4.43	30	
1,3-Dichlorobenzene	10.2	1.0	0.14	µg/L	10.0	ND	102		70-130	1.45	30	
1,4-Dichlorobenzene	9.85	1.0	0.13	µg/L	10.0	ND	98.5		70-130	0.405	30	
Dichlorodifluoromethane (Freon 12)	8.85	2.0	0.16	µg/L	10.0	ND	88.5		70-130	0.453	30	
1,1-Dichloroethane	10.5	1.0	0.14	µg/L	10.0	ND	105		70-130	1.98	30	
1,2-Dichloroethane	10.1	1.0	0.30	µg/L	10.0	ND	101		70-130	2.21	30	
1,1-Dichloroethylene	9.91	1.0	0.14	µg/L	10.0	ND	99.1		70-130	2.69	30	
cis-1,2-Dichloroethylene	32.4	1.0	0.14	µg/L	10.0	22.7	97.2		70-130	1.20	30	
trans-1,2-Dichloroethylene	10.1	1.0	0.17	µg/L	10.0	0.290	98.0		70-130	2.51	30	
1,2-Dichloropropane	11.0	1.0	0.19	µg/L	10.0	ND	110		70-130	0.00	30	
cis-1,3-Dichloropropene	9.03	0.50	0.16	µg/L	10.0	ND	90.3		70-130	0.332	30	
trans-1,3-Dichloropropene	8.78	0.50	0.14	µg/L	10.0	ND	87.8		70-130	1.49	30	
1,4-Dioxane	71.3	50	18	µg/L	100	ND	71.3		70-130	14.0	30	V-05
Ethylbenzene	10.2	1.0	0.22	µg/L	10.0	ND	102		70-130	0.00	30	
2-Hexanone (MBK)	79.7	10	1.2	µg/L	100	ND	79.7		70-130	2.48	30	V-05
Isopropylbenzene (Cumene)	9.39	1.0	0.15	µg/L	10.0	ND	93.9		70-130	1.16	30	
Methyl Acetate	8.58	1.0	0.61	µg/L	10.0	ND	85.8		70-130	0.467	30	
Methyl tert-Butyl Ether (MTBE)	9.09	1.0	0.17	µg/L	10.0	ND	90.9		70-130	1.53	30	
Methyl Cyclohexane	10.7	1.0	0.16	µg/L	10.0	ND	107		70-130	3.12	30	
Methylene Chloride	9.73	5.0	0.18	µg/L	10.0	ND	97.3		70-130	2.34	30	
4-Methyl-2-pentanone (MIBK)	80.7	10	1.3	µg/L	100	ND	80.7		70-130	4.39	30	
Styrene	9.51	1.0	0.15	µg/L	10.0	ND	95.1		70-130	1.36	30	
1,1,2,2-Tetrachloroethane	9.69	0.50	0.14	µg/L	10.0	ND	96.9		70-130	2.55	30	
Tetrachloroethylene	132	1.0	0.17	µg/L	10.0	118	**134**	*	70-130	0.978	30	MS-24

sample result >4x spike - no quals

RPD <50

Sample ID: 828120-MW-210-015/828120-DUP-2

Compund	Result	LabQual	Dup	LabQual	RPD
cis-1,2-Dichloroethene	13		13		0
Tetrachloroethene	46		47		2.150538
Trichloroethene	8.8		9.1		3.351955
Vinyl chloride	1.6	J	1.4	J	13.33333

Sample ID: 828120-HA-114-013/828120-DUP-1

Compund	Result	LabQual	Dup	LabQual	RPD
cis-1,2-Dichloroethene	22		23		4.444444
Tetrachloroethene	120		120		0
trans-1,2-Dichloroethene	0.22	J	0.29	J	27.45098
Trichloroethene	23		23		0
Vinyl chloride	1	J	1	J	0

CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in April 2024 at Carriage Cleaners in Brighton, New York, and shipped to ALS Environmental Laboratory located in Rochester, New York, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

A completeness check was performed for monitored natural attenuation (MNA) parameters: total and dissolved iron and manganese, chloride, sulfate, nitrate, ethene, ethane, methane, alkalinity, sulfide, and total organic carbon. Results were reported in the following sample delivery group (SDG):

- R2403332
- R2403411

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions.

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)

- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated
UJ = target analyte is not detected, value is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260D

Matrix spike RQ2404444-05 and RQ2404444-06 using sample 828120MW08B027 had low percent recovery for dichlorodifluoromethane (CFC12). Results were qualified (UJ/J-) depending on detection. Qualified results are included in Table 3 with reason code MSL.

Matrix spike RQ2404464-05 and RQ2404464-06 using sample 828120MW09B017 had low percent recovery for methyl acetate. Results were qualified (UJ/J-) depending on detection. Qualified results are included in Table 3 with reason code MSL.

Laboratory control samples RQ2404464-03 and RQ2404444-03 had a low percent recovery for dichlorofluoromethane and methyl acetate. Affected results were qualified (UJ/J-) depending on detection. Qualified results are included in Table 3 with reason code LCSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Analysis for VOCs on sample 828120MW06009 was analyzed at a 250x dilution. Results are reported with elevated detection limits.

Trip blanks 1 and 2 (R2403411-010 and -011) had detections for 1-4 dichlorobenzene and tetrachloroethene. Associated sample 828120MW09008 was qualified with BL2 as the final result was below the reporting limit.

Trip blank R2403332 had a detection for 1-4 dichlorobenzene. No results were qualified.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Talia Sultan

T. Sultan

Date: September 5, 2024

Reviewed by: Gregory Lull

Date: September 5, 2024

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

EIS – Extracted internal standard recovery outside limits

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

IR – Qualifier ion ratio outside limits

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

RFL – Qualifier ion signal to noise ratio less than limit

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

						Method Class	VOCs	Metals	Metals	Diss Gases	Inorganics & Wet Chem	Inorganics & Wet Chem
						Analysis Method	SW8260C	SW6010C	SW6010C	RSK175	9056A	SM2320B
						Fraction	N	D	T	N	N	N
Lab SDG	**Media**	**Location**	**Field Sample ID**	**Sample Date**	**Qc Code**		Count	Count	Count	Count	Count	Count
R2403332	GW	EW-1	828120EW01010	4/23/2024	FS		52		2	3	3	1
R2403332	GW	EW-1	828120EW01010	4/23/2024	FS			2				
R2403332	GW	MW-111I	828120MW111I028	4/23/2024	FS		52		2	3	3	1
R2403332	GW	MW-111I	828120MW111I028	4/23/2024	FS			2				
R2403332	GW	MW-6	828120MW06009	4/23/2024	FS		52					
R2403332	GW	MW-6B	828120MW06B027	4/23/2024	FS		52					
R2403332	BW	QC	Trip Blank	4/23/2024	TB		52					
R2403411	GW	HA-114	828120HA114013	4/24/2024	FS		52		2	3	3	1
R2403411	GW	HA-114	828120HA114013	4/24/2024	FS			2				
R2403411	GW	MW-210	828120MW210015	4/24/2024	FS		52		2	3	3	1
R2403411	GW	MW-210	828120MW210015	4/24/2024	FS			2				
R2403411	GW	MW-8B	828120MW08B027	4/24/2024	FS		52					
R2403411	GW	MW-9	828120MW09008	4/24/2024	FS		52		2	3	3	1
R2403411	GW	MW-9	828120MW09008	4/24/2024	FS			2				
R2403411	GW	MW-9B	828120MW09B017	4/24/2024	FS		52					
R2403411	GW	QC	DUP	4/24/2024	FD		52					
R2403411	BW	QC	Trip Blank 1	4/24/2024	TB		52					
R2403411	BW	QC	Trip Blank 2	4/24/2024	TB		52					

Created by: KLD 7/1/2024
Checked by: TS 8/2/2024

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

						Inorganics & Wet Chem	Inorganics & Wet Chem
					Method Class		
					Analysis Method	SM4500-S2-F	SM5310B
					Fraction	N	N
Lab SDG	**Media**	**Location**	**Field Sample ID**	**Sample Date**	**Qc Code**	Count	Count
R2403332	GW	EW-1	828120EW01010	4/23/2024	FS	1	1
R2403332	GW	EW-1	828120EW01010	4/23/2024	FS		
R2403332	GW	MW-111I	828120MW111I028	4/23/2024	FS	1	1
R2403332	GW	MW-111I	828120MW111I028	4/23/2024	FS		
R2403332	GW	MW-6	828120MW06009	4/23/2024	FS		
R2403332	GW	MW-6B	828120MW06B027	4/23/2024	FS		
R2403332	BW	QC	Trip Blank	4/23/2024	TB		
R2403411	GW	HA-114	828120HA114013	4/24/2024	FS	1	1
R2403411	GW	HA-114	828120HA114013	4/24/2024	FS		
R2403411	GW	MW-210	828120MW210015	4/24/2024	FS	1	1
R2403411	GW	MW-210	828120MW210015	4/24/2024	FS		
R2403411	GW	MW-8B	828120MW08B027	4/24/2024	FS		
R2403411	GW	MW-9	828120MW09008	4/24/2024	FS	1	1
R2403411	GW	MW-9	828120MW09008	4/24/2024	FS		
R2403411	GW	MW-9B	828120MW09B017	4/24/2024	FS		
R2403411	GW	QC	DUP	4/24/2024	FD		
R2403411	BW	QC	Trip Blank 1	4/24/2024	TB		
R2403411	BW	QC	Trip Blank 2	4/24/2024	TB		

Created by: KLD 7/1/2024
Checked by: TS 8/2/2024

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210		MW-6	
		Lab Sample Delivery Group	R2403332		R2403411		R2403332		R2403411		R2403332	
		Field Sample Date	4/23/2024		4/24/2024		4/23/2024		4/24/2024		4/23/2024	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I028		828120MW210015		828120MW06009	
		Qc Code	FS		FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,1,2,2-Tetrachloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,1,2-Trichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,1-Dichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,1-Dichloroethene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2,3-Trichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2,4-Trichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2-Dibromo-3-chloropropane	UG/L	2.0	U	2.0	U	2.0	U	2.0	U	500	U
SW8260C	1,2-Dibromoethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2-Dichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,2-Dichloropropane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,3-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,4-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	1,4-Dioxane	UG/L	40	U	40	U	40	U	40	U	10,000	U
SW8260C	2-Butanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	1,300	U
SW8260C	2-Hexanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	1,300	U
SW8260C	4-Methyl-2-pentanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	1,300	U
SW8260C	Acetic acid, methyl ester	UG/L	2.0	UJ	2.0	UJ	2.0	UJ	2.0	UJ	500	UJ
SW8260C	Acetone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	1,300	U
SW8260C	Benzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Bromochloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Bromodichloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Bromoform	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Bromomethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Carbon disulfide	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Carbon tetrachloride	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Chlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Chloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Chloroform	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	270	

Created by: KLD 9/4/2024
Checked by: TSS 9/5/2024

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	EW-1		HA-114		MW-111I		MW-210		MW-6	
		Lab Sample Delivery Group	R2403332		R2403411		R2403332		R2403411		R2403332	
		Field Sample Date	4/23/2024		4/24/2024		4/23/2024		4/24/2024		4/23/2024	
		Field Sample ID	828120EW01010		828120HA114013		828120MW111I028		828120MW210015		828120MW06009	
		Qc Code	FS		FS		FS		FS		FS	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Chloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	cis-1,2-Dichloroethene	UG/L	7.0		1.3		10		10		250	U
SW8260C	cis-1,3-Dichloropropene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Cyclohexane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Dibromochloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Dichlorodifluoromethane	UG/L	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	250	UJ
SW8260C	Ethylbenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Isopropylbenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Methyl cyclohexane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Methyl Tertbutyl Ether	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Methylene chloride	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Styrene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Tetrachloroethene	UG/L	76		23		90		35		24,000	
SW8260C	Toluene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	trans-1,2-Dichloroethene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	trans-1,3-Dichloropropene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Trichloroethene	UG/L	8.8		4.3		12		5.7		250	U
SW8260C	Trichlorofluoromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Vinyl chloride	UG/L	1.0	U	1.0	U	1.7		1.6		250	U
SW8260C	Xylene, o	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	250	U
SW8260C	Xylenes (m&p)	UG/L	2.0	U	2.0	U	2.0	U	2.0	U	500	U
RSK175	Ethane	UG/L	5.2	U	5.2	U	5.2	U	5.2	U		
RSK175	Ethene	UG/L	5.0	U	5.0	U	5.0	U	5.0	U		
RSK175	Methane	UG/L	5.2	U	6.4		5.2	U	6.7			
9056A	Chloride	MG/L	46		676		95		120			
9056A	Nitrate as N	MG/L	1.0	U	1.4		1.0	U	1.0	U		
9056A	Sulfate	MG/L	52		55		62		63			
SM2320B	Total Alkalinity, as CaCO3	MG/L	370		392		364		393			
SM4500-S2-F	Sulfide	MG/L	0.9	U	0.9	U	0.9	U	0.9	U		
SM5310B	Total Organic Carbon	MG/L	1.3		1.5		1.4		1.4			
SW6010C	Iron (D)	UG/L	100	U	70	J	100	U	520			
SW6010C	Manganese (D)	UG/L	38		63		62		86			
SW6010C	Iron (T)	UG/L	200		180		100	U	1,940			
SW6010C	Manganese (T)	UG/L	41		61		67		89			

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-6B	
		Lab Sample Delivery Group	R2403332	
		Field Sample Date	4/23/2024	
		Field Sample ID	828120MW06B027	
		Qc Code	FS	
Method	**Parameter**	**Units**	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	UG/L	1.0	U
SW8260C	1,1,2,2-Tetrachloroethane	UG/L	1.0	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1.0	U
SW8260C	1,1,2-Trichloroethane	UG/L	1.0	U
SW8260C	1,1-Dichloroethane	UG/L	1.0	U
SW8260C	1,1-Dichloroethene	UG/L	1.0	U
SW8260C	1,2,3-Trichlorobenzene	UG/L	1.0	U
SW8260C	1,2,4-Trichlorobenzene	UG/L	1.0	U
SW8260C	1,2-Dibromo-3-chloropropane	UG/L	2.0	U
SW8260C	1,2-Dibromoethane	UG/L	1.0	U
SW8260C	1,2-Dichlorobenzene	UG/L	1.0	U
SW8260C	1,2-Dichloroethane	UG/L	1.0	U
SW8260C	1,2-Dichloropropane	UG/L	1.0	U
SW8260C	1,3-Dichlorobenzene	UG/L	1.0	U
SW8260C	1,4-Dichlorobenzene	UG/L	1.0	U
SW8260C	1,4-Dioxane	UG/L	40	U
SW8260C	2-Butanone	UG/L	5.0	U
SW8260C	2-Hexanone	UG/L	5.0	U
SW8260C	4-Methyl-2-pentanone	UG/L	5.0	U
SW8260C	Acetic acid, methyl ester	UG/L	2.0	UJ
SW8260C	Acetone	UG/L	5.0	U
SW8260C	Benzene	UG/L	1.0	U
SW8260C	Bromochloromethane	UG/L	1.0	U
SW8260C	Bromodichloromethane	UG/L	1.0	U
SW8260C	Bromoform	UG/L	1.0	U
SW8260C	Bromomethane	UG/L	1.0	U
SW8260C	Carbon disulfide	UG/L	1.0	U
SW8260C	Carbon tetrachloride	UG/L	1.0	U
SW8260C	Chlorobenzene	UG/L	1.0	U
SW8260C	Chloroethane	UG/L	1.0	U
SW8260C	Chloroform	UG/L	1.0	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-6B	
		Lab Sample Delivery Group	R2403332	
		Field Sample Date	4/23/2024	
		Field Sample ID	828120MW06B027	
		Qc Code	FS	
Method	**Parameter**	**Units**	Result	Qualifier
SW8260C	Chloromethane	UG/L	1.0	U
SW8260C	cis-1,2-Dichloroethene	UG/L	0.3	J
SW8260C	cis-1,3-Dichloropropene	UG/L	1.0	U
SW8260C	Cyclohexane	UG/L	1.0	U
SW8260C	Dibromochloromethane	UG/L	1.0	U
SW8260C	Dichlorodifluoromethane	UG/L	1.0	UJ
SW8260C	Ethylbenzene	UG/L	1.0	U
SW8260C	Isopropylbenzene	UG/L	1.0	U
SW8260C	Methyl cyclohexane	UG/L	1.0	U
SW8260C	Methyl Tertbutyl Ether	UG/L	1.0	U
SW8260C	Methylene chloride	UG/L	1.0	U
SW8260C	Styrene	UG/L	1.0	U
SW8260C	Tetrachloroethene	UG/L	4.1	
SW8260C	Toluene	UG/L	1.0	U
SW8260C	trans-1,2-Dichloroethene	UG/L	1.0	U
SW8260C	trans-1,3-Dichloropropene	UG/L	1.0	U
SW8260C	Trichloroethene	UG/L	0.3	J
SW8260C	Trichlorofluoromethane	UG/L	1.0	U
SW8260C	Vinyl chloride	UG/L	1.0	U
SW8260C	Xylene, o	UG/L	1.0	U
SW8260C	Xylenes (m&p)	UG/L	2.0	U
RSK175	Ethane	UG/L		
RSK175	Ethene	UG/L		
RSK175	Methane	UG/L		
9056A	Chloride	MG/L		
9056A	Nitrate as N	MG/L		
9056A	Sulfate	MG/L		
SM2320B	Total Alkalinity, as CaCO3	MG/L		
SM4500-S2-F	Sulfide	MG/L		
SM5310B	Total Organic Carbon	MG/L		
SW6010C	Iron (D)	UG/L		
SW6010C	Manganese (D)	UG/L		
SW6010C	Iron (T)	UG/L		
SW6010C	Manganese (T)	UG/L		

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC		QC	
		Lab Sample Delivery Group	R2403411		R2403411		R2403411		R2403332		R2403411	
		Field Sample Date	4/24/2024		4/24/2024		4/24/2024		4/23/2024		4/24/2024	
		Field Sample ID	828120MW08B027		828120MW09008		828120MW09B017		Trip Blank		Trip Blank 1	
		Qc Code	FS		FS		FS		TB		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,1,2,2-Tetrachloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,1,2-Trichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,1-Dichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,1-Dichloroethene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2,3-Trichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2,4-Trichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2-Dibromo-3-chloropropane	UG/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
SW8260C	1,2-Dibromoethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2-Dichloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,2-Dichloropropane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,3-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	1,4-Dichlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	0.4	J	0.5	J
SW8260C	1,4-Dioxane	UG/L	40	U	40	U	40	U	40	U	40	U
SW8260C	2-Butanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
SW8260C	2-Hexanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
SW8260C	4-Methyl-2-pentanone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
SW8260C	Acetic acid, methyl ester	UG/L	2.0	UJ	2.0	UJ	2.0	UJ	2.0	U	2.0	U
SW8260C	Acetone	UG/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
SW8260C	Benzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Bromochloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Bromodichloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Bromoform	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Bromomethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Carbon disulfide	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Carbon tetrachloride	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Chlorobenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Chloroethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Chloroform	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	MW-8B		MW-9		MW-9B		QC		QC	
		Lab Sample Delivery Group	R2403411		R2403411		R2403411		R2403332		R2403411	
		Field Sample Date	4/24/2024		4/24/2024		4/24/2024		4/23/2024		4/24/2024	
		Field Sample ID	828120MW08B027		828120MW09008		828120MW09B017		Trip Blank		Trip Blank 1	
		Qc Code	FS		FS		FS		TB		TB	
Method	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260C	Chloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	cis-1,2-Dichloroethene	UG/L	15	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	cis-1,3-Dichloropropene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Cyclohexane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Dibromochloromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Dichlorodifluoromethane	UG/L	1.0	UJ	1.0	UJ	1.0	UJ	1.0	U	1.0	U
SW8260C	Ethylbenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Isopropylbenzene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Methyl cyclohexane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Methyl Tertbutyl Ether	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Methylene chloride	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Styrene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Tetrachloroethene	UG/L	120		1.0	U	1.0	U	1.0	U	0.3	J
SW8260C	Toluene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	trans-1,2-Dichloroethene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	trans-1,3-Dichloropropene	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Trichloroethene	UG/L	15		1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Trichlorofluoromethane	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Vinyl chloride	UG/L	0.9	J	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Xylene, o	UG/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SW8260C	Xylenes (m&p)	UG/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
RSK175	Ethane	UG/L			5.2	U						
RSK175	Ethene	UG/L			5.0	U						
RSK175	Methane	UG/L			7.1							
9056A	Chloride	MG/L			424							
9056A	Nitrate as N	MG/L			1.2							
9056A	Sulfate	MG/L			54							
SM2320B	Total Alkalinity, as CaCO3	MG/L			539							
SM4500-S2-F	Sulfide	MG/L			0.3	J						
SM5310B	Total Organic Carbon	MG/L			3.9							
SW6010C	Iron (D)	UG/L			1,230							
SW6010C	Manganese (D)	UG/L			167							
SW6010C	Iron (T)	UG/L			1,250							
SW6010C	Manganese (T)	UG/L			154							

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC	
		Lab Sample Delivery Group	R2403411	
		Field Sample Date	4/24/2024	
		Field Sample ID	Trip Blank 2	
		Qc Code	TB	
Method	**Parameter**	**Units**	Result	Qualifier
SW8260C	1,1,1-Trichloroethane	UG/L	1.0	U
SW8260C	1,1,2,2-Tetrachloroethane	UG/L	1.0	U
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1.0	U
SW8260C	1,1,2-Trichloroethane	UG/L	1.0	U
SW8260C	1,1-Dichloroethane	UG/L	1.0	U
SW8260C	1,1-Dichloroethene	UG/L	1.0	U
SW8260C	1,2,3-Trichlorobenzene	UG/L	1.0	U
SW8260C	1,2,4-Trichlorobenzene	UG/L	1.0	U
SW8260C	1,2-Dibromo-3-chloropropane	UG/L	2.0	U
SW8260C	1,2-Dibromoethane	UG/L	1.0	U
SW8260C	1,2-Dichlorobenzene	UG/L	1.0	U
SW8260C	1,2-Dichloroethane	UG/L	1.0	U
SW8260C	1,2-Dichloropropane	UG/L	1.0	U
SW8260C	1,3-Dichlorobenzene	UG/L	1.0	U
SW8260C	1,4-Dichlorobenzene	UG/L	0.5	J
SW8260C	1,4-Dioxane	UG/L	40	U
SW8260C	2-Butanone	UG/L	5.0	U
SW8260C	2-Hexanone	UG/L	5.0	U
SW8260C	4-Methyl-2-pentanone	UG/L	5.0	U
SW8260C	Acetic acid, methyl ester	UG/L	2.0	U
SW8260C	Acetone	UG/L	5.0	U
SW8260C	Benzene	UG/L	1.0	U
SW8260C	Bromochloromethane	UG/L	1.0	U
SW8260C	Bromodichloromethane	UG/L	1.0	U
SW8260C	Bromoform	UG/L	1.0	U
SW8260C	Bromomethane	UG/L	1.0	U
SW8260C	Carbon disulfide	UG/L	1.0	U
SW8260C	Carbon tetrachloride	UG/L	1.0	U
SW8260C	Chlorobenzene	UG/L	1.0	U
SW8260C	Chloroethane	UG/L	1.0	U
SW8260C	Chloroform	UG/L	1.0	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

		Location	QC	
		Lab Sample Delivery Group	R2403411	
		Field Sample Date	4/24/2024	
		Field Sample ID	Trip Blank 2	
		Qc Code	TB	
Method	**Parameter**	**Units**	Result	Qualifier
SW8260C	Chloromethane	UG/L	1.0	U
SW8260C	cis-1,2-Dichloroethene	UG/L	1.0	U
SW8260C	cis-1,3-Dichloropropene	UG/L	1.0	U
SW8260C	Cyclohexane	UG/L	1.0	U
SW8260C	Dibromochloromethane	UG/L	1.0	U
SW8260C	Dichlorodifluoromethane	UG/L	1.0	U
SW8260C	Ethylbenzene	UG/L	1.0	U
SW8260C	Isopropylbenzene	UG/L	1.0	U
SW8260C	Methyl cyclohexane	UG/L	1.0	U
SW8260C	Methyl Tertbutyl Ether	UG/L	1.0	U
SW8260C	Methylene chloride	UG/L	1.0	U
SW8260C	Styrene	UG/L	1.0	U
SW8260C	Tetrachloroethene	UG/L	0.3	J
SW8260C	Toluene	UG/L	1.0	U
SW8260C	trans-1,2-Dichloroethene	UG/L	1.0	U
SW8260C	trans-1,3-Dichloropropene	UG/L	1.0	U
SW8260C	Trichloroethene	UG/L	1.0	U
SW8260C	Trichlorofluoromethane	UG/L	1.0	U
SW8260C	Vinyl chloride	UG/L	1.0	U
SW8260C	Xylene, o	UG/L	1.0	U
SW8260C	Xylenes (m&p)	UG/L	2.0	U
RSK175	Ethane	UG/L		
RSK175	Ethene	UG/L		
RSK175	Methane	UG/L		
9056A	Chloride	MG/L		
9056A	Nitrate as N	MG/L		
9056A	Sulfate	MG/L		
SM2320B	Total Alkalinity, as CaCO3	MG/L		
SM4500-S2-F	Sulfide	MG/L		
SM5310B	Total Organic Carbon	MG/L		
SW6010C	Iron (D)	UG/L		
SW6010C	Manganese (D)	UG/L		
SW6010C	Iron (T)	UG/L		
SW6010C	Manganese (T)	UG/L		

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Lab Sample ID	Field Sample ID	Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
R2403332	R2403332-001	828120EW01010	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-001	828120EW01010	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-003	828120MW111I028	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-003	828120MW111I028	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-005	828120MW06B027	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-005	828120MW06B027	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-006	828120MW06009	SW8260C	N	Dichlorodifluoromethane	250	U	250	UJ	LCSL	UG/L	ALSR
R2403332	R2403332-006	828120MW06009	SW8260C	N	Acetic acid, methyl ester	500	U	500	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-001	828120HA114013	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-001	828120HA114013	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-003	828120MW09008	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-003	828120MW09008	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-003	828120MW09008	SW8260C	N	Tetrachloroethene	0.8	J	1.0	U	BL2	UG/L	ALSR
R2403411	R2403411-005	828120MW210015	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-005	828120MW210015	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-007	828120MW08B027	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL, MSL	UG/L	ALSR
R2403411	R2403411-007	828120MW08B027	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL, MSL	UG/L	ALSR
R2403411	R2403411-008	828120MW09B017	SW8260C	N	Dichlorodifluoromethane	1.0	U	1.0	UJ	LCSL	UG/L	ALSR
R2403411	R2403411-008	828120MW09B017	SW8260C	N	Acetic acid, methyl ester	2.0	U	2.0	UJ	LCSL, MSL	UG/L	ALSR

Created by: KLD 9/4/2024
Checked by: TSS 9/5/2024

CATEGORY A REVIEW
APRIL 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Carriage Cleaners
Method : SW-846 8260C (or specify)
Laboratory: ALS Environmental **SDG(s):** R2403332, R2403411
Date: 08/02/24
Reviewer: T. Sultan
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes, see backup

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one) R2403411: Trip Blank 1+ 2 detects on 1-4 Dichlorobenzene and tetrachloroethene, see backup
   R2403332: detect on 1-4 dichlorobenzene, no quals

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO 828120MW08B027 UJ/J-
   828120MW09B017 UJ/J-

   Were all results within above QC limits? YES NO NA (circle one)
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one) R2403332: (RQ2404464-03)
   UJ/J- dichlorofluoromethane, methyl acetate
   R2403411: (RQ2404444-03)
   UJ/J- dichlorofluoromethane, methyl acetate

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   828120MW06009 analyzed at 250x dilution, RL correct, no quals

9. ☑ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Client: WSP USA Environment & Infrastructure Inc.
Project: NYDEC #828120 (Carriage Cleaners)
Sample Matrix: Water

Service Request: R2403332
Date Received: 04/24/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Seven water samples were received for analysis at ALS Environmental on 04/24/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method SM4500 S2F, R2403332-001,003, pH was <9 when tested immediately prior to testing, indicating that chemical preservation was not added or was inadequate to meet the preservation requirement.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 04/29/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

ok

Approved by _____ Date 05/06/2024

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners
Sample Matrix: Water

Service Request: R2403411
Date Received: 04/25/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Eleven water samples were received for analysis at ALS Environmental on 04/25/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method SM4500 S2F, R2403411-001, pH was <9 when tested immediately prior to testing, indicating that chemical preservation was not added or was inadequate to meet the preservation requirement.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 04/26/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
ok

Method 8260C, 04/26/2024: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one analyte. There were no detections of the analyte in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Additional analysis of the associated field samples was not performed because the low recovery is due to a stock standard discrepancy. The analyte is flagged in the LCS Summary.
see qc backup

Method 8260C, 04/29/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
ok

Approved by _____ Date 05/13/2024

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2403411
Project:	Carriage Cleaners/3616206118	**Date Collected:**	04/24/24
Sample Matrix:	Water	**Date Received:**	04/25/24 08:30
Sample Name:	Trip Blank 1	**Units:**	ug/L
Lab Code:	R2403411-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

J, BL2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/24 13:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/24 13:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/24 13:21	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:21	
1,4-Dichlorobenzene	**0.50 J**	1.0	0.20	1	04/29/24 13:21	
1,4-Dioxane	40 U	40	13	1	04/29/24 13:21	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/24 13:21	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/24 13:21	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/24 13:21	
Acetone	5.0 U	5.0	5.0	1	04/29/24 13:21	
Benzene	1.0 U	1.0	0.20	1	04/29/24 13:21	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
Bromoform	1.0 U	1.0	0.25	1	04/29/24 13:21	
Bromomethane	1.0 U	1.0	0.70	1	04/29/24 13:21	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/24 13:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/24 13:21	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:21	
Chloroethane	1.0 U	1.0	0.23	1	04/29/24 13:21	
Chloroform	1.0 U	1.0	0.51	1	04/29/24 13:21	
Chloromethane	1.0 U	1.0	0.80	1	04/29/24 13:21	
Cyclohexane	1.0 U	1.0	0.60	1	04/29/24 13:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/24 13:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/24 13:21	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/24 13:21	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/24 13:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/24 13:21	
Methyl Acetate	2.0 U	2.0	0.87	1	04/29/24 13:21	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/24 13:21	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/24 13:21	
Styrene	1.0 U	1.0	0.20	1	04/29/24 13:21	
Tetrachloroethene (PCE)	**0.34 J**	1.0	0.21	1	04/29/24 13:21	
Toluene	1.0 U	1.0	0.20	1	04/29/24 13:21	

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2403411
Project:	Carriage Cleaners/3616206118	**Date Collected:**	04/24/24
Sample Matrix:	Water	**Date Received:**	04/25/24 08:30
Sample Name:	Trip Blank 2	**Units:**	ug/L
Lab Code:	R2403411-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

J, BL2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/24 13:44	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/24 13:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/24 13:44	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:44	
1,4-Dichlorobenzene	**0.51 J**	1.0	0.20	1	04/29/24 13:44	
1,4-Dioxane	40 U	40	13	1	04/29/24 13:44	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/24 13:44	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/24 13:44	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/24 13:44	
Acetone	5.0 U	5.0	5.0	1	04/29/24 13:44	
Benzene	1.0 U	1.0	0.20	1	04/29/24 13:44	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
Bromoform	1.0 U	1.0	0.25	1	04/29/24 13:44	
Bromomethane	1.0 U	1.0	0.70	1	04/29/24 13:44	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/24 13:44	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/24 13:44	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/24 13:44	
Chloroethane	1.0 U	1.0	0.23	1	04/29/24 13:44	
Chloroform	1.0 U	1.0	0.51	1	04/29/24 13:44	
Chloromethane	1.0 U	1.0	0.80	1	04/29/24 13:44	
Cyclohexane	1.0 U	1.0	0.60	1	04/29/24 13:44	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/24 13:44	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/24 13:44	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/24 13:44	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/24 13:44	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/24 13:44	
Methyl Acetate	2.0 U	2.0	0.87	1	04/29/24 13:44	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/24 13:44	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/24 13:44	
Styrene	1.0 U	1.0	0.20	1	04/29/24 13:44	
Tetrachloroethene (PCE)	**0.28 J**	1.0	0.21	1	04/29/24 13:44	
Toluene	1.0 U	1.0	0.20	1	04/29/24 13:44	

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2403332
Project:	NYDEC #828120 (Carriage Cleaners)/3616206118	**Date Collected:**	04/23/24
Sample Matrix:	Water	**Date Received:**	04/24/24 08:20
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2403332-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C J, BL2
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/24 18:43	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/24 18:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/24 18:43	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/24 18:43	
1,4-Dichlorobenzene	**0.38 J**	1.0	0.20	1	04/29/24 18:43	
1,4-Dioxane	40 U	40	13	1	04/29/24 18:43	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/24 18:43	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/24 18:43	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/24 18:43	
Acetone	5.0 U	5.0	5.0	1	04/29/24 18:43	
Benzene	1.0 U	1.0	0.20	1	04/29/24 18:43	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
Bromoform	1.0 U	1.0	0.25	1	04/29/24 18:43	
Bromomethane	1.0 U	1.0	0.70	1	04/29/24 18:43	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/24 18:43	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/24 18:43	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/24 18:43	
Chloroethane	1.0 U	1.0	0.23	1	04/29/24 18:43	
Chloroform	1.0 U	1.0	0.51	1	04/29/24 18:43	
Chloromethane	1.0 U	1.0	0.80	1	04/29/24 18:43	
Cyclohexane	1.0 U	1.0	0.60	1	04/29/24 18:43	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/24 18:43	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/24 18:43	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/24 18:43	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/24 18:43	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/24 18:43	
Methyl Acetate	2.0 U	2.0	0.87	1	04/29/24 18:43	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/24 18:43	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/24 18:43	
Styrene	1.0 U	1.0	0.20	1	04/29/24 18:43	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/24 18:43	
Toluene	1.0 U	1.0	0.20	1	04/29/24 18:43	

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2403411
Project:	Carriage Cleaners/3616206118	**Date Collected:**	04/24/24
Sample Matrix:	Water	**Date Received:**	04/25/24
		Date Analyzed:	04/26/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	828120MW08B027	**Units:**	ug/L
Lab Code:	R2403411-007	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

Limit: 70-130, <20 RPD

UJ/J-, MSL

		Matrix Spike			Duplicate Matrix Spike					
		RQ2404444-05			RQ2404444-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dibromochloromethane	1.0 U	52.3	50.0	105	53.5	50.0	107	72-128	2	30
Dichlorodifluoromethane (CFC 12)	1.0 U	28.6	50.0	57	29.2	50.0	58	49-154	2	30
Dichloromethane	1.0 U	52.5	50.0	105	51.7	50.0	103	73-122	2	30
Ethylbenzene	1.0 U	51.7	50.0	103	53.1	50.0	106	72-134	3	30
Isopropylbenzene (Cumene)	1.0 U	52.7	50.0	105	53.6	50.0	107	77-128	2	30
Methyl Acetate	2.0 U	27.6	50.0	55	29.7	50.0	59	26-121	7	30
Methyl tert-Butyl Ether	1.0 U	47.1	50.0	94	47.8	50.0	96	75-119	1	30
Methylcyclohexane	1.0 U	39.6	50.0	79	39.3	50.0	79	45-146	<1	30
Styrene	1.0 U	55.3	50.0	111	56.0	50.0	112	74-136	1	30
Tetrachloroethene (PCE)	120	164	50.0	98	169	50.0	108	72-125	3	30
Toluene	1.0 U	52.5	50.0	105	52.4	50.0	105	79-119	<1	30
Trichloroethene (TCE)	15	67.9	50.0	107	67.6	50.0	106	74-122	<1	30
Trichlorofluoromethane (CFC 11)	1.0 U	42.2	50.0	84	44.7	50.0	89	71-136	6	30
Vinyl Chloride	0.87 J	38.4	50.0	75	39.0	50.0	76	74-159	2	30
cis-1,2-Dichloroethene	15	66.6	50.0	102	66.0	50.0	101	77-127	<1	30
cis-1,3-Dichloropropene	1.0 U	53.2	50.0	106	53.2	50.0	106	52-134	<1	30
m,p-Xylenes	2.0 U	107	100	107	110	100	110	80-126	3	30
o-Xylene	1.0 U	54.1	50.0	108	55.3	50.0	111	79-123	2	30
trans-1,2-Dichloroethene	1.0 U	48.0	50.0	96	48.1	50.0	96	73-118	<1	30
trans-1,3-Dichloropropene	1.0 U	52.1	50.0	104	53.4	50.0	107	71-133	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2403411
Project:	Carriage Cleaners/3616206118	**Date Collected:**	04/24/24
Sample Matrix:	Water	**Date Received:**	04/25/24
		Date Analyzed:	04/29/24
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	828120MW09B017	**Units:**	ug/L
Lab Code:	R2403411-008	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

Limit: 70-130, <35 RPD

UJ/J-, MSL

		Matrix Spike RQ2404464-05			Duplicate Matrix Spike RQ2404464-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dibromochloromethane	1.0 U	44.5	50.0	89	49.3	50.0	99	72-128	10	30
Dichlorodifluoromethane (CFC 12)	1.0 U	54.5	50.0	109	62.1	50.0	124	49-154	13	30
Dichloromethane	1.0 U	45.3	50.0	91	48.8	50.0	98	73-122	8	30
Ethylbenzene	1.0 U	44.9	50.0	90	49.0	50.0	98	72-134	9	30
Isopropylbenzene (Cumene)	1.0 U	46.1	50.0	92	49.4	50.0	99	77-128	7	30
Methyl Acetate	2.0 U	30.4	50.0	61	29.4	50.0	59	26-121	3	30
Methyl tert-Butyl Ether	1.0 U	43.3	50.0	87	45.3	50.0	91	75-119	5	30
Methylcyclohexane	1.0 U	49.6	50.0	99	49.2	50.0	98	45-146	<1	30
Styrene	1.0 U	47.2	50.0	94	51.5	50.0	103	74-136	9	30
Tetrachloroethene (PCE)	1.0 U	50.5	50.0	101	55.7	50.0	111	72-125	10	30
Toluene	1.0 U	45.8	50.0	92	49.1	50.0	98	79-119	7	30
Trichloroethene (TCE)	1.0 U	45.8	50.0	92	50.4	50.0	101	74-122	9	30
Trichlorofluoromethane (CFC 11)	1.0 U	46.2	50.0	92	52.4	50.0	105	71-136	13	30
Vinyl Chloride	1.0 U	41.1	50.0	82	45.1	50.0	90	74-159	9	30
cis-1,2-Dichloroethene	1.0 U	46.4	50.0	93	49.0	50.0	98	77-127	5	30
cis-1,3-Dichloropropene	1.0 U	44.9	50.0	90	47.6	50.0	95	52-134	6	30
m,p-Xylenes	2.0 U	93.6	100	94	101	100	101	80-126	8	30
o-Xylene	1.0 U	46.2	50.0	92	49.7	50.0	99	79-123	7	30
trans-1,2-Dichloroethene	1.0 U	45.0	50.0	90	47.0	50.0	94	73-118	4	30
trans-1,3-Dichloropropene	1.0 U	45.1	50.0	90	48.4	50.0	97	71-133	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: WSP USA Environment & Infrastructure Inc.
Project: NYDEC #828120 (Carriage Cleaners)/3616206118
Sample Matrix: Water

Service Request: R2403332
Date Analyzed: 04/29/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2404464-03

Limit: 70-130

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12) UJ/J- LCSL	8260C	13.1	20.0	66	59-155
Dichloromethane	8260C	21.2	20.0	106	73-122
Ethylbenzene	8260C	21.0	20.0	105	76-120
Isopropylbenzene (Cumene)	8260C	20.8	20.0	104	77-128
Methyl Acetate UJ/J- LCSL	8260C	12.2	20.0	61	61-133
Methyl tert-Butyl Ether	8260C	19.6	20.0	98	75-118
Methylcyclohexane	8260C	16.7	20.0	84	51-129
Styrene	8260C	21.6	20.0	108	80-124
Tetrachloroethene (PCE)	8260C	22.8	20.0	114	72-125
Toluene	8260C	20.5	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.9	20.0	104	74-122
Trichlorofluoromethane (CFC 11)	8260C	18.6	20.0	93	71-136
Vinyl Chloride	8260C	15.8	20.0	79	74-159
cis-1,2-Dichloroethene	8260C	20.2	20.0	101	80-121
cis-1,3-Dichloropropene	8260C	20.8	20.0	104	77-122
m,p-Xylenes	8260C	42.4	40.0	106	80-126
o-Xylene	8260C	21.3	20.0	106	79-123
trans-1,2-Dichloroethene	8260C	18.9	20.0	94	73-118
trans-1,3-Dichloropropene	8260C	20.8	20.0	104	71-133

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2403411
Date Analyzed: 04/26/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Limit: 70-130

Lab Control Sample
RQ2404444-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12) UJ/J-, LCSL	8260C	13.0	20.0	65	59-155
Dichloromethane	8260C	20.4	20.0	102	73-122
Ethylbenzene	8260C	19.8	20.0	99	76-120
Isopropylbenzene (Cumene)	8260C	20.4	20.0	102	77-128
Methyl Acetate UJ/J-, LCSL	8260C	11.3	20.0	57 *	61-133
Methyl tert-Butyl Ether	8260C	19.0	20.0	95	75-118
Methylcyclohexane	8260C	16.0	20.0	80	51-129
Styrene	8260C	21.5	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	22.2	20.0	111	72-125
Toluene	8260C	20.2	20.0	101	79-119
Trichloroethene (TCE)	8260C	20.9	20.0	104	74-122
Trichlorofluoromethane (CFC 11)	8260C	18.3	20.0	91	71-136
Vinyl Chloride	8260C	15.3	20.0	76	74-159
cis-1,2-Dichloroethene	8260C	19.6	20.0	98	80-121
cis-1,3-Dichloropropene	8260C	20.7	20.0	103	77-122
m,p-Xylenes	8260C	41.8	40.0	104	80-126
o-Xylene	8260C	21.2	20.0	106	79-123
trans-1,2-Dichloroethene	8260C	18.7	20.0	94	73-118
trans-1,3-Dichloropropene	8260C	20.4	20.0	102	71-133

CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in October 2024 at Carriage Cleaners in Brighton, New York, and shipped to ALS Environmental located in Rochester, New York, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

A completeness check was performed for monitored natural attenuation (MNA) parameters: total and dissolved iron and manganese, chloride, sulfate, nitrate, ethene, ethane, methane, alkalinity, sulfide, and total organic carbon. Results were reported in the following sample delivery group (SDG):

- R2410943
- R2410982
- R2411086

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results

A summary of table notes applicable to Tables 1 and 2 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits

- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Samples were collected and delivered to the laboratory on the same day for all three sampling days. In all cases, samples were delivered with proper cooling on wet ice however not enough time had elapsed for samples to cool to the required 4 – 6 degrees C. The Same Day Rule applies in this case. Sample data is approved despite the elevated cooler temperatures noted on the cooler receipt page.

Reporting limits in a subset of samples are elevated due to dilutions as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Tara LePage

Date: February 3, 2025

Reviewed by: Greg Lull

Date: March 12, 2025

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

						Lab Id	ALSR	ALSR	ALSR	ALSR	ALSR	ALSR	ALSR	ALSR	ALSR
						Method Class	VOCs	Dissolved Gases	Sulfide	Anions	Alkalinity	Sulfide	TOC	Metals	Metals
						Analysis Method	SW8260D	RSK175	9034	9056A	SM 2320 B-1	SM 4500-S2-F-2000(2011)	SM5310B	6010D	6010D
						Fraction	N	N	N	N	N	N	N	D	T
Lab Sample Delivery Group	**Media**	**Loc Name**	**Field Sample Id**	**Field Sample Date**	**Lab Sample Id**	**Qc Code**	Count	Count	Count	Count	Count	Count	Count	Count	Count
R2410943	GW	EW-1	828120 EW01025	10/29/2024 12:20	R2410943-001	FS	52	3		3	1	1	1	2	2
R2410943	GW	MW-6	828120 MW06009	10/29/2024 9:50	R2410943-004	FS	52								
R2410943	GW	MW-6B	828120 MW06B027	10/29/2024 11:20	R2410943-003	FS	52								
R2410943	GW	QC	828120 DUP	10/29/2024 0:00	R2410943-005	FD	52								
R2410943	BW	QC	828120 TB-1	10/29/2024 0:00	R2410943-006	TB	52								
R2410982	GW	MW-111I	828120 MW111I027	10/30/2024 8:50	R2410982-001	FS	52	3		3	1	1	1	2	2
R2410982	GW	MW-8B	828120 MW08B026	10/30/2024 10:10	R2410982-003	FS	52								
R2410982	GW	MW-9	828120 MW09009	10/30/2024 11:50	R2410982-004	FS	52	3	1	3	1		1	2	2
R2410982	GW	MW-9B	828120 MW09B017	10/30/2024 12:55	R2410982-006	FS	52								
R2410982	BW	QC	828120 TB-2	10/30/2024 0:00	R2410982-007	TB	52								
R2411086	GW	HA-114	828120 Ha114012	10/31/2024 9:05	R2411086-001	FS	52	3		3	1	1	1	2	2
R2411086	GW	MW-210	828120 MW210015	10/31/2024 10:35	R2411086-003	FS	52	3		3	1	1	1	2	2
R2411086	BW	QC	828120 TB-3	10/31/2024 0:00	R2411086-005	TB	52								

Created by: AP 1/13/2025
Checked by: TML 1/27/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	EW-1		HA-114		MW-111I		MW-210	
				Lab Sample Delivery Group	R2410943		R2411086		R2410982		R2411086	
				Field Sample Date	10/29/2024 12:20		10/31/2024 9:05		10/30/2024 8:50		10/31/2024 10:35	
				Field Sample Id	828120 EW01025		828120 Ha114012		828120 MW111I027		828120 MW210015	
				Qc Code	FS		FS		FS		FS	
Matrix	Method Class	Analysis Method	Fraction	Param Name	Result	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2	U	2	U	2	U	2	U
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40	U	40	U	40	U	40	U
L	VOCs	SW8260D	N	2-Butanone	UG/L	5	U	5	U	5	U	5	U
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5	U	5	U	5	U	5	U
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5	U	5	U	5	U	5	U
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2	U	2	U	2	U	2	U
L	VOCs	SW8260D	N	Acetone	UG/L	5	U	5	U	5	U	5	U
L	VOCs	SW8260D	N	Benzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Bromoform	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Bromomethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Chloroethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Chloroform	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Chloromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	0.47	J	16		27		14	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1	U	1	U	0.57	J	1	U
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Styrene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	57		84		170		49	
L	VOCs	SW8260D	N	Toluene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1	U	1	U	0.34	J	1	U
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Trichloroethene	UG/L	1.5		16		32		8.7	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1	U	0.53	J	2		1.6	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1	U	1	U	1	U	1	U
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2	U	2	U	2	U	2	U

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	EW-1		HA-114		MW-111I		MW-210	
					Lab Sample Delivery Group	R2410943		R2411086		R2410982		R2411086	
					Field Sample Date	10/29/2024 12:20		10/31/2024 9:05		10/30/2024 8:50		10/31/2024 10:35	
					Field Sample Id	828120 EW01025		828120 Ha114012		828120 MW111I027		828120 MW210015	
					Qc Code	FS		FS		FS		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L	5.2	U	5.2	U	5.2	U	5.2	U
L	Dissolved Gases	RSK175	N	Ethene	UG/L	5	U	5	U	5	U	5	U
L	Dissolved Gases	RSK175	N	Methane	UG/L	5.2	U	5.2	U	5.2	U	4.9	J
L	Inorganics & Wet Chem	9034	N	Sulfide	MG/L								
L	Inorganics & Wet Chem	9056A	N	Chloride	MG/L	63.7		399		70.9		81.6	
L	Inorganics & Wet Chem	9056A	N	Nitrate as N	MG/L	1.1		0.9	J	0.4	J	1	U
L	Inorganics & Wet Chem	9056A	N	Sulfate	MG/L	23.5		50.5		43.1		48.4	
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L	312		438		342		336	
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L	0.8	J	0.37		0.97	U	0.91	
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L	1.5		3.1		2.1		2.1	
L	METALS	SW6010D	D	Iron	UG/L	100	U	100	U	100	U	160	
L	METALS	SW6010D	D	Manganese	UG/L	10	U	32		26		77	
L	METALS	SW6010D	T	Iron	UG/L	100	U	530		100	U	1140	
L	METALS	SW6010D	T	Manganese	UG/L	7	J	35		30		79	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	MW-6		MW-6B		MW-8B	
				Lab Sample Delivery Group	R2410943		R2410943		R2410982	
				Field Sample Date	10/29/2024 9:50		10/29/2024 11:20		10/30/2024 10:10	
				Field Sample Id	828120 MW06009		828120 MW06B027		828120 MW08B026	
				Qc Code	FS		FS		FS	
Matrix	Method Class	Analysis Method	Fraction	Param Name	Result	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	50 U	2 U		2 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	1000 U	40 U		40 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	130 U	5 U		5 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	130 U	5 U		5 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	130 U	5 U		5 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	50 U	2 U		2 U	
L	VOCs	SW8260D	N	Acetone	UG/L	130 U	5 U		5 U	
L	VOCs	SW8260D	N	Benzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	11 J	31		28	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Styrene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	7800	370		190	
L	VOCs	SW8260D	N	Toluene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	6.5 J	32		21	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	25 U	2.6		0.66 J	
L	VOCs	SW8260D	N	Xylene, o	UG/L	25 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	50 U	2 U		2 U	

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	MW-6		MW-6B		MW-8B	
					Lab Sample Delivery Group	R2410943		R2410943		R2410982	
					Field Sample Date	10/29/2024 9:50		10/29/2024 11:20		10/30/2024 10:10	
					Field Sample Id	828120 MW06009		828120 MW06B027		828120 MW08B026	
					Qc Code	FS		FS		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L						
L	Dissolved Gases	RSK175	N	Ethene	UG/L						
L	Dissolved Gases	RSK175	N	Methane	UG/L						
L	Inorganics & Wet Chem	9034	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	9056A	N	Chloride	MG/L						
L	Inorganics & Wet Chem	9056A	N	Nitrate as N	MG/L						
L	Inorganics & Wet Chem	9056A	N	Sulfate	MG/L						
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L						
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L						
L	METALS	SW6010D	D	Iron	UG/L						
L	METALS	SW6010D	D	Manganese	UG/L						
L	METALS	SW6010D	T	Iron	UG/L						
L	METALS	SW6010D	T	Manganese	UG/L						

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	MW-9		MW-9B		QC	
				Lab Sample Delivery Group	R2410982		R2410982		R2410943	
				Field Sample Date	10/30/2024 11:50		10/30/2024 12:55		10/29/2024 0:00	
				Field Sample Id	828120 MW09009		828120 MW09B017		828120 DUP	
				Qc Code	FS		FS		FD	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	2 U		50 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	40 U		1000 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	5 U		130 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	5 U		130 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	5 U		130 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	2 U		50 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 U	5 U		130 U	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	5.7	0.58 J		7900	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	0.3 J	1 U		8 J	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	1 U		25 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	2 U		50 U	

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	MW-9		MW-9B		QC	
					Lab Sample Delivery Group	R2410982		R2410982		R2410943	
					Field Sample Date	10/30/2024 11:50		10/30/2024 12:55		10/29/2024 0:00	
					Field Sample Id	828120 MW09009		828120 MW09B017		828120 DUP	
					Qc Code	FS		FS		FD	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L	5.2	U				
L	Dissolved Gases	RSK175	N	Ethene	UG/L	5	U				
L	Dissolved Gases	RSK175	N	Methane	UG/L	3.8	J				
L	Inorganics & Wet Chem	9034	N	Sulfide	MG/L	1					
L	Inorganics & Wet Chem	9056A	N	Chloride	MG/L	380					
L	Inorganics & Wet Chem	9056A	N	Nitrate as N	MG/L	3.3					
L	Inorganics & Wet Chem	9056A	N	Sulfate	MG/L	66.3					
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L	517					
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L	3					
L	METALS	SW6010D	D	Iron	UG/L	100	U				
L	METALS	SW6010D	D	Manganese	UG/L	341					
L	METALS	SW6010D	T	Iron	UG/L	3110					
L	METALS	SW6010D	T	Manganese	UG/L	373					

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	QC		QC		QC	
				Lab Sample Delivery Group	R2410943		R2410982		R2411086	
				Field Sample Date	10/29/2024 0:00		10/30/2024 0:00		10/31/2024 0:00	
				Field Sample Id	828120 TB-1		828120 TB-2		828120 TB-3	
				Qc Code	TB		TB		TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	40 U		40 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	2 U		2 U	

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	QC		QC		QC	
					Lab Sample Delivery Group	R2410943		R2410982		R2411086	
					Field Sample Date	10/29/2024 0:00		10/30/2024 0:00		10/31/2024 0:00	
					Field Sample Id	828120 TB-1		828120 TB-2		828120 TB-3	
					Qc Code	TB		TB		TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L						
L	Dissolved Gases	RSK175	N	Ethene	UG/L						
L	Dissolved Gases	RSK175	N	Methane	UG/L						
L	Inorganics & Wet Chem	9034	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	9056A	N	Chloride	MG/L						
L	Inorganics & Wet Chem	9056A	N	Nitrate as N	MG/L						
L	Inorganics & Wet Chem	9056A	N	Sulfate	MG/L						
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L						
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L						
L	METALS	SW6010D	D	Iron	UG/L						
L	METALS	SW6010D	D	Manganese	UG/L						
L	METALS	SW6010D	T	Iron	UG/L						
L	METALS	SW6010D	T	Manganese	UG/L						

Created by: AP 3/25/2025
Checked by: TML 3/31/2025

CATEGORY A REVIEW
OCTOBER 2024 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: NYSDEC Carriage Cleaners
Method : SW-846 8260D
Laboratory: ALS **SDG(s):** R2410943
Date: 1/27/2025
Reviewer: T. LePage
Review Level [X] CATEGORY A

1. ☑ ☐ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes, see backup no qualifications needed

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ ☐ **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)

3. ☑ ☐ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ ☐ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO 828120 MW06009

   Were all results within the Region II limits? YES NO NA (circle one)

5. ☑ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

   Were all results were within Region II control limits? YES NO (circle one)

6. ☑ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

   Were all results within Region II limits? YES NO (circle one)

7. ☐ ☐ **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO 828120 DUP

   Were all results within Region II Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   samples results for tetrachloroethane for 828120 MW06B027, 828120 MW06009, and 828120 DUP were analyzed at dilution from 2.5x-100x

9. ☑ ☐ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☐ ☐ **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

ALS Environmental

Client: WSP USA Environment & Infrastructure Inc. **Service Request:** R2410943
Project: Carriage Cleaners **Date Received:** 10/29/2024
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 10/29/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260D, 11/06/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken. okay

Report was revised to fix sample ID on 11/27/2024.

Approved by _____ Date 11/20/2024

Chain of Custody / Analytical Request Form

081040

SR#:

Page 1 of 1

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: WSP	Project Name: NYDEC #828120 Carriage Cleaners
Contact: Vincent Whelan	Project Number: 361620611 8
Email: Vincent.Whelan@wsp.com	ALS Quote #: 241021007
Phone: 1-215-808-3672	Sampler's Signature:
Address: 751 Arbor Way, Blue Bell, PA 19422	Email CC:
	Email CC:
	State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:

Preservative: 1 | | | 1 | | 2 | 0 | 0 | 5 | 0 | 3 | 3 | 0

0. None
1. HCl
2. HNO3
3. H2SO4
4. NAOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

Lab ID (ALS)	Sample Collection Information: Sample ID:	Date	Time	Matrix (GW WW SW DW S L NA)	Number of Containers	MS/MSD?	GC/MS VOA - 8260	GC/MS SVOA - 8270	Pesticides - 8081 • PCBs - 8082 • 608 • TCLP	PCBs - 8082 • 608 RSK-175-MEE	Herbicides - 8151 • TCLP Fe/Mn	Metals, Total - Subject Bottom	Metals, Dissolved (Field) Filtered	Chloride - SM4500	Sulfide - SM4500	Sulfate - 300.0	Nitrate - 353.2	Total Organic Carbon	Alkalinity - SM2320	Notes:
	828120 EW0102S	10/29/24	12:20	GW	21	NO	X			X		X	X	X	X	X	X	X	X	
	828120 MW06B027	10/29/24	11:20	GW	3	No	X													
	828120 MW06009	10/29/24	9:50	GW	3	NO	X													
	828120 MW06009-MS	10/29/24	9:52	GW	3	Yes	X													
	828120 MW06009-MSD	10/29/24	9:55	GW	3	Yes	X													
	828120 DUP	10/29/24	—	GW	3	NO	X													
	828120 TB-1	10/29/24	—	TB	2	NO	X													

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Special Instructions / Comments:

* VOC Analysis (8260B Target compound list Volitile Organic compounds)

Dissolved metals are field filtered

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
____ Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
____Tier IV/Cat B - Data Validation Report w/. Data
EDD: ____Yes ____No
EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (□ Same as Report To)

PO #:
Company:
Contact:
Em
Ph
Ad

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	Mark Felong	Randy Diaz				
Company	WSP	ALS				
Date/Time	10/29/24 13:50	10/30/24 1350				

R2410943 5
WSP
Carriage Cleaners

Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: NYSDEC Carriage Cleaners
Method : SW-846 8260D
Laboratory: ALS **SDG(s):** R2410982
Date: 1/27/2025
Reviewer: T. LePage
Review Level [X] CATEGORY A

1. ☑ ☐ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes, One of the two coolers for this SDG arrived out of acceptable temperature spec, at 15.2 C.

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ ☐ **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)

3. ☑ ☐ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ ☐ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within the Region II limits? YES NO NA (circle one)

5. ☑ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)

   Were all results were within Region II control limits? YES NO (circle one)

6. ☑ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)

   Were all results within Region II limits? YES NO (circle one)

7. ☑ ☐ **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region II Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   Sample result for 828120 MW08B026 of tetrachloroethane as analyzed at a dilution (2.5x).

9. ☑ ☐ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ ☐ **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners
Sample Matrix: Water

Service Request: R2410982
Date Received: 10/30/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Seven water samples were received for analysis at ALS Environmental on 10/30/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/26/2024

Chain of Custody / Analytical Request Form

76948

SR#:

Page | of |

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Report To:	ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER
Company: WSP	Project Name: NYDEC#828120 Carriage Cleaners
Contact: Vincent Whelan	Project Number: 361620611 8.
Email: Vincent.Whelan@wsp.com	ALS Quote #: 24102007
Phone: 1-215-808-3672	Sampler's Signature:
Address: 751 Arbor way, Blue Bell, PA 19422	Email CC:
	Email CC:
	State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:

Preservative: 1 | 1 | 2 0 0 5 | 0 3 3 0

0. None
1. HCl
2. HNO3
3. H2SO4
4. NAOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

Lab ID (ALS)	Sample Collection Information: Sample ID:	Date	Time	Matrix (GW WW SW DW S NA)	Number of Containers	MS/MSD?	GC/MS VOA - 8260 B*	GC/MS SVOA - [illegible]	Pesticides - [illegible]	PCBs - [illegible] RSK-175-MEE	Herbicides - [illegible]	Metals, Total - Select [illegible] FE,Mn	Metals, Dissolved (Field) FE,Mn	Chloride - SM4500	Sulfide - SM4500	Sulfate - 300.0	Nitrate - 353.2	Total Organic Carbon 415.1	Alkalinity - SM2320	Notes:
	828120 MW111I 027	10/30/24	0850	GW	21	NO	X			X		X	X	X	X	X	X	X	X	
	828120 MW08B 02C	10/30/24	10:10	GW	3	No	X													
	828120 MW09 009	10/30/24	11:50	GW	21	NO	X			X		X	X	X	X	X	X	X	X	
	828120 MW09B017	10/30/24	12:55	GW	3	NO	X													
	828120 TB-2	10/30/24	—	TB	2	NO	X													

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2 NO3 Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Special Instructions / Comments:

*6 VOC Analysis (8260 B Target compound list Volitile organic compounds)

Dissolved metals are field filtered

Turnaround Requirements

_____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM

_____Standard (10 Business Days)

Date Required:

Report Requirements

_____Tier II/Cat A -Results/QC

_____Tier IV/Cat B - Data Validation Report w/. Data

EDD: _____Yes _____No

EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (□ Same as Report To)

PO #:

Company:

Contact:

Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	Mark Felong	Abbie Austin				
Company	WSP	ALS				
Date/Time	10/30/24 14:00	10/31/24 1400				

R2410982 5
WSP
Carriage Cleaners

Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: NYSDEC Carriage Cleaners
Method : SW-846 8260D
Laboratory: ALS **SDG(s):** R2411086
Date: 1/27/2025
Reviewer: T. LePage
Review Level [X] CATEGORY A

1. ☑ ☐ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes, One of the two coolers for this SDG arrived out of acceptable temperature spec, at 10.8 C.
   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)
   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ ☐ **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)

3. ☑ ☐ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)
   Are Trip blanks free of contamination? YES NO (circle one)
   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ ☐ **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO
   Were all results within the Region II limits? YES NO NA (circle one)

5. ☑ **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)
   Were all results were within Region II control limits? YES NO (circle one)

6. ☑ **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)
   Were all results within Region II limits? YES NO (circle one)

7. ☑ ☐ **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO
   Were all results within Region II Limits? YES NO NA (circle one)

8. ☐ ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ ☐ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ ☐ **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

ALS Environmental

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners
Sample Matrix: Water

Service Request: R2411086
Date Received: 10/31/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 10/31/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 11/26/2024

Chain of Custody / Analytical Request Form

76949

SR#:

Page 1 of 1

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

Report To:

Company: WSP
Contact: Vincent Whelan
Email: Vincent.Whelan@wsp.com
Phone: 1-215-808-3672
Address: 751 Arbor way, Blue Bell, PA 19422

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER

Project Name: NYDEC #828120 Carriage Cleaners
Project Number: 36162061 18
ALS Quote #: [redacted]241021007
Sampler's Signature:
Email CC:
Email CC:
State Samples Collected (Circle or Write): NY, MA, PA, CT, Other:

Preservative: 1 — 2 0 6 5 0 3 3 0

0. None
1. HCl
2. HNO3
3. H2SO4
4. NAOH
5. Zn Acet.
6. MeOH
7. NaHSO4
8. Other

Lab ID (ALS)	Sample ID:	Date	Time	Matrix (GW WW SW DW S L NA)	Number of Containers	MS/MSD?	GC/MS VOA - 8260 B	[redacted]	[redacted]	RSK-175-MEE	Herbicides 8151	Metals, Total FE,Mn	Metals, Dissolved (Field) FE,Mn	Chloride-SM4500	Sulfide-SM4500	Sulfate-300.0	Nitrate-353.2	Total organic Carbon 415.1	Alkalinity-SM2320	Notes:
	828120 HA114 012	10/31/24	0905	GW	21	NO	X			X		X	X	X	X	X	X	X	X	
	828120 MW210 015	10/31/24	10:35	GW	21	NO	X			X		X	X	X	X	X	X	X	X	
	828120 TB-3	10/31/24	—	TB	2	NO	X													

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2 NO3 Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

Special Instructions / Comments:

* VOC Analysis (8260B Target Compound List Volitile Organic Compounds)

Dissolved metals are field filtered
Please Discard extra bottle ware

Turnaround Requirements

____Rush (Surcharges Apply)
Subject to Availability
Please Check with your PM
____Standard (10 Business Days)
Date Required:

Report Requirements

____Tier II/Cat A -Results/QC
____Tier IV/Cat B - Data Validation Report w/. Data
EDD: ____Yes ____No
EDD Type:

Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)

VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars •THM • Other: _____

Invoice To: (□ Same as Report To)

PO #:
Company:
Contact:
Email:

	Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature						
Printed Name	Mark Felong	Randy Diaz				
Company	WSP	ALS				
Date/Time	10/31/24 12:45	10/31/24 1245				

R2411086 5
WSP
Carriage Cleaners

Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in March 2025 at Carriage Cleaners in Brighton, New York, and shipped to ALS Environmental located in Rochester, New York, for analysis. Samples included in this review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260D

A completeness check was performed for monitored natural attenuation (MNA) parameters: total and dissolved iron and manganese, chloride, sulfate, nitrate, ethene, ethane, methane, alkalinity, sulfide, and total organic carbon. Results were reported in the following sample delivery group (SDG):

- R2502461

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions.

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits

- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated
UJ = target analyte is not detected, value is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260D

The reporting limits for acetone in samples 828120EW01010 and 828120MW111I028 were qualified as estimated (UJ). Qualified results are included in Table 3 with reason code LCSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Reporting limits in a subset of samples are elevated due to dilutions as indicated in Table 2.

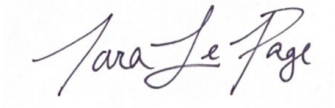
Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Tara LePage



Date: April 17, 2025

Reviewed by: Greg Lull

Date: April 17, 2025

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

						Lab Id	ALSR	ALSR	ALSR	ALSR
						Method Class	VOCs	Dissolved Gases	Inorganics & Wet Chem	Inorganics & Wet Chem
						Analysis Method	SW8260D	RSK175	SM 2320 B-1997(2011)	SM 4500-S2-F-2000(2011)
						Fraction	N	N	N	N
Lab SDG	**Media**	**Loc Name**	**Field Sample Id**	**Field Sample Date**	**Lab Sample Id**	**Qc Code**	Lab Result	Lab Result	Lab Result	Lab Result
R2502461	GW	EW-1	828120EW01010	3/11/2025 11:30	R2502461-002	FS	52	3	1	1
R2502461	GW	EW-1	828120EW01010	3/11/2025 11:30	R2502461-003	FS				
R2502461	GW	MW-111I	828120MW111I028	3/11/2025 9:35	R2502461-004	FS	52	3	1	1
R2502461	GW	MW-111I	828120MW111I028	3/11/2025 9:35	R2502461-005	FS				
R2502461	GW	MW-8B	828120MW08B026	3/11/2025 12:45	R2502461-001	FS	52			
R2502461	BW	QC	Trip Blank	3/11/2025 0:00	R2502461-006	TB	52			
R2502511	GW	MW-6	828120-DUP	3/12/2025 0:00	R2502511-002	FD	52			
R2502511	GW	MW-6	828120MW06009	3/12/2025 10:50	R2502511-003	FS	52			
R2502511	GW	MW-6B	828120MW06B027	3/12/2025 9:45	R2502511-004	FS	52			
R2502511	GW	MW-9B	828120MW09B017	3/12/2025 12:25	R2502511-001	FS	52			
R2502511	BW	QC	Trip Blank 2	3/12/2025 0:00	R2502511-005	TB	52			
R2502618	GW	HA-114	828120HA114013	3/13/2025 11:30	R2502618-003	FS	52	3	1	1
R2502618	GW	HA-114	828120HA114013	3/13/2025 11:30	R2502618-004	FS				
R2502618	GW	MW-210	828120MW210015	3/13/2025 13:10	R2502618-001	FS	52	3	1	1
R2502618	GW	MW-210	828120MW210015	3/13/2025 13:10	R2502618-002	FS				
R2502618	GW	MW-9	828120MW09008	3/13/2025 10:00	R2502618-005	FS	52	3	1	1
R2502618	GW	MW-9	828120MW09008	3/13/2025 10:00	R2502618-006	FS				
R2502618	BW	QC	Trip Blank 3	3/13/2025 0:00	R2502618-007	TB	52			

Created by: AP 4/15/2025
Checked by: TML 4/15/2025

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

						Lab Id	ALSR	ALSR	ALSR	ALSR
						Method Class	Inorganics & Wet Chem	Inorganics & Wet Chem	METALS	METALS
						Analysis Method	SM5310B	SW9056A	SW6010D	SW6010D
						Fraction	N	N	D	T
Lab SDG	**Media**	**Loc Name**	**Field Sample Id**	**Field Sample Date**	**Lab Sample Id**	**Qc Code**	Lab Result	Lab Result	Lab Result	Lab Result
R2502461	GW	EW-1	828120EW01010	3/11/2025 11:30	R2502461-002	FS	1	3		2
R2502461	GW	EW-1	828120EW01010	3/11/2025 11:30	R2502461-003	FS			2	
R2502461	GW	MW-111I	828120MW111I028	3/11/2025 9:35	R2502461-004	FS	1	3		2
R2502461	GW	MW-111I	828120MW111I028	3/11/2025 9:35	R2502461-005	FS			2	
R2502461	GW	MW-8B	828120MW08B026	3/11/2025 12:45	R2502461-001	FS				
R2502461	BW	QC	Trip Blank	3/11/2025 0:00	R2502461-006	TB				
R2502511	GW	MW-6	828120-DUP	3/12/2025 0:00	R2502511-002	FD				
R2502511	GW	MW-6	828120MW06009	3/12/2025 10:50	R2502511-003	FS				
R2502511	GW	MW-6B	828120MW06B027	3/12/2025 9:45	R2502511-004	FS				
R2502511	GW	MW-9B	828120MW09B017	3/12/2025 12:25	R2502511-001	FS				
R2502511	BW	QC	Trip Blank 2	3/12/2025 0:00	R2502511-005	TB				
R2502618	GW	HA-114	828120HA114013	3/13/2025 11:30	R2502618-003	FS	1	3		2
R2502618	GW	HA-114	828120HA114013	3/13/2025 11:30	R2502618-004	FS			2	
R2502618	GW	MW-210	828120MW210015	3/13/2025 13:10	R2502618-001	FS	1	3		2
R2502618	GW	MW-210	828120MW210015	3/13/2025 13:10	R2502618-002	FS			2	
R2502618	GW	MW-9	828120MW09008	3/13/2025 10:00	R2502618-005	FS	1	3		2
R2502618	GW	MW-9	828120MW09008	3/13/2025 10:00	R2502618-006	FS			2	
R2502618	BW	QC	Trip Blank 3	3/13/2025 0:00	R2502618-007	TB				

Created by: AP 4/15/2025
Checked by: TML 4/15/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	EW-1		HA-114		MW-111I	
				Lab Sample Delivery Group	R2502461		R2502618		R2502461	
				Field Sample Date	3/11/2025 11:30		3/13/2025 11:30		3/11/2025 9:35	
				Field Sample Id	828120EW01010		828120HA114013		8281020MW111I028	
				Qc Code	FS		FS		FS	
Matrix	Method Class	Analysis Method	Fraction	Param Name	Result	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	40 U		40 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 UJ	5 U		5 UJ	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	5.9	0.93 J		12	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	1 U		0.26 J	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	65	23		65	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	1 U		0.25 J	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	8.9	4.2		7.6	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	0.23 J	1 U		3	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	2 U		2 U	

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	EW-1		HA-114		MW-111I	
					Lab Sample Delivery Group	R2502461		R2502618		R2502461	
					Field Sample Date	3/11/2025 11:30		3/13/2025 11:30		3/11/2025 9:35	
					Field Sample Id	828120EW01010		828120HA114013		8281020MW111I028	
					Qc Code	FS		FS		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L	5.2	U	5.2	U	5.2	U
L	Dissolved Gases	RSK175	N	Ethene	UG/L	5	U	5	U	5	U
L	Dissolved Gases	RSK175	N	Methane	UG/L	6.7		5.3		3.2	J
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L	360		430		349	
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L	0.94	U	0.94	U	0.93	U
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L	1.8		2		1.6	
L	Inorganics & Wet Chem	SW9056A	N	Chloride	MG/L	47.5		843		98.1	
L	Inorganics & Wet Chem	SW9056A	N	Nitrate as N	MG/L	1	U	1.4		1	U
L	Inorganics & Wet Chem	SW9056A	N	Sulfate	MG/L	55.8		58.4		58.2	
L	METALS	SW6010D	D	Iron	UG/L	100	U	100	U	100	U
L	METALS	SW6010D	D	Manganese	UG/L	58		8	J	67	
L	METALS	SW6010D	T	Iron	UG/L	100	U	640		80	J
L	METALS	SW6010D	T	Manganese	UG/L	56		20		69	

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	MW-210		MW-6		MW-6	
				Lab Sample Delivery Group	R2502618		R2502511		R2502511	
				Field Sample Date	3/13/2025 13:10		3/12/2025 0:00		3/12/2025 10:50	
				Field Sample Id	828120MW210015		828120-DUP		828120MW06009	
				Qc Code	FS		FD		FS	
Matrix	Method Class	Analysis Method	Fraction	Param Name	Result	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	200 U		100 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	4000 U		2000 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	500 U		250 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	500 U		250 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	500 U		250 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	200 U		100 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 U	500 U		250 U	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	72 J		50 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	8.1	100 U		50 U	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	23	24000		19000	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	4.6	100 U		50 U	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1.9	100 U		50 U	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	100 U		50 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	200 U		100 U	

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	MW-210		MW-6		MW-6	
					Lab Sample Delivery Group	R2502618		R2502511		R2502511	
					Field Sample Date	3/13/2025 13:10		3/12/2025 0:00		3/12/2025 10:50	
					Field Sample Id	828120MW210015		828120-DUP		828120MW06009	
					Qc Code	FS		FD		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L	5.2	U				
L	Dissolved Gases	RSK175	N	Ethene	UG/L	5	U				
L	Dissolved Gases	RSK175	N	Methane	UG/L	5.3					
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L	388					
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L	0.89	U				
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L	2.4					
L	Inorganics & Wet Chem	SW9056A	N	Chloride	MG/L	91.5					
L	Inorganics & Wet Chem	SW9056A	N	Nitrate as N	MG/L	1	U				
L	Inorganics & Wet Chem	SW9056A	N	Sulfate	MG/L	63.9					
L	METALS	SW6010D	D	Iron	UG/L	100	U				
L	METALS	SW6010D	D	Manganese	UG/L	95					
L	METALS	SW6010D	T	Iron	UG/L	2020					
L	METALS	SW6010D	T	Manganese	UG/L	101					

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	MW-6B		MW-8B		MW-9	
				Lab Sample Delivery Group	R2502511		R2502461		R2502618	
				Field Sample Date	3/12/2025 9:45		3/11/2025 12:45		3/13/2025 10:00	
				Field Sample Id	828120MW06B027		828120MW08B026		828120MW09008	
				Qc Code	FS		FS		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	40 U		40 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	0.74 J	9.7		1 U	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	5.1	60		4.8	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	0.38 J	8.9		1 U	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1 U	0.37 J		1 U	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	2 U		2 U	

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	MW-6B		MW-8B		MW-9	
					Lab Sample Delivery Group	R2502511		R2502461		R2502618	
					Field Sample Date	3/12/2025 9:45		3/11/2025 12:45		3/13/2025 10:00	
					Field Sample Id	828120MW06B027		828120MW08B026		828120MW09008	
					Qc Code	FS		FS		FS	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L					5.2	U
L	Dissolved Gases	RSK175	N	Ethene	UG/L					5	U
L	Dissolved Gases	RSK175	N	Methane	UG/L					5.2	U
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L					523	
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L					0.92	U
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L					5.1	
L	Inorganics & Wet Chem	SW9056A	N	Chloride	MG/L					375	
L	Inorganics & Wet Chem	SW9056A	N	Nitrate as N	MG/L					1.2	
L	Inorganics & Wet Chem	SW9056A	N	Sulfate	MG/L					42.1	
L	METALS	SW6010D	D	Iron	UG/L					100	U
L	METALS	SW6010D	D	Manganese	UG/L					87	
L	METALS	SW6010D	T	Iron	UG/L					420	
L	METALS	SW6010D	T	Manganese	UG/L					88	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	MW-9B		QC		QC	
				Lab Sample Delivery Group	R2502511		R2502461		R2502511	
				Field Sample Date	3/12/2025 12:25		3/11/2025 0:00		3/12/2025 0:00	
				Field Sample Id	828120MW09B017		Trip Blank		Trip Blank 2	
				Qc Code	FS		TB		TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result Final Qualifier	Final Result Final Qualifier		Final Result Final Qualifier	
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U	40 U		40 U	
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U	2 U		2 U	
L	VOCs	SW8260D	N	Acetone	UG/L	5 U	5 U		5 U	
L	VOCs	SW8260D	N	Benzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Styrene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	10	1 U		1 U	
L	VOCs	SW8260D	N	Toluene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichloroethene	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U	1 U		1 U	
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U	2 U		2 U	

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	MW-9B		QC		QC	
					Lab Sample Delivery Group	R2502511		R2502461		R2502511	
					Field Sample Date	3/12/2025 12:25		3/11/2025 0:00		3/12/2025 0:00	
					Field Sample Id	828120MW09B017		Trip Blank		Trip Blank 2	
					Qc Code	FS		TB		TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L						
L	Dissolved Gases	RSK175	N	Ethene	UG/L						
L	Dissolved Gases	RSK175	N	Methane	UG/L						
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L						
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L						
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L						
L	Inorganics & Wet Chem	SW9056A	N	Chloride	MG/L						
L	Inorganics & Wet Chem	SW9056A	N	Nitrate as N	MG/L						
L	Inorganics & Wet Chem	SW9056A	N	Sulfate	MG/L						
L	METALS	SW6010D	D	Iron	UG/L						
L	METALS	SW6010D	D	Manganese	UG/L						
L	METALS	SW6010D	T	Iron	UG/L						
L	METALS	SW6010D	T	Manganese	UG/L						

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

				Loc Name	QC	
				Lab Sample Delivery Group	R2502618	
				Field Sample Date	3/13/2025 0:00	
				Field Sample Id	Trip Blank 3	
				Qc Code	TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result Final Qualifier
L	VOCs	SW8260D	N	1,1,1-Trichloroethane	UG/L	1 U
L	VOCs	SW8260D	N	1,1,2,2-Tetrachloroethane	UG/L	1 U
L	VOCs	SW8260D	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1 U
L	VOCs	SW8260D	N	1,1,2-Trichloroethane	UG/L	1 U
L	VOCs	SW8260D	N	1,1-Dichloroethane	UG/L	1 U
L	VOCs	SW8260D	N	1,1-Dichloroethene	UG/L	1 U
L	VOCs	SW8260D	N	1,2,3-Trichlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	1,2,4-Trichlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	1,2-Dibromo-3-chloropropane	UG/L	2 U
L	VOCs	SW8260D	N	1,2-Dibromoethane	UG/L	1 U
L	VOCs	SW8260D	N	1,2-Dichlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	1,2-Dichloroethane	UG/L	1 U
L	VOCs	SW8260D	N	1,2-Dichloropropane	UG/L	1 U
L	VOCs	SW8260D	N	1,3-Dichlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	1,4-Dichlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	1,4-Dioxane	UG/L	40 U
L	VOCs	SW8260D	N	2-Butanone	UG/L	5 U
L	VOCs	SW8260D	N	2-Hexanone	UG/L	5 U
L	VOCs	SW8260D	N	4-Methyl-2-pentanone	UG/L	5 U
L	VOCs	SW8260D	N	Acetic acid, methyl ester	UG/L	2 U
L	VOCs	SW8260D	N	Acetone	UG/L	5 U
L	VOCs	SW8260D	N	Benzene	UG/L	1 U
L	VOCs	SW8260D	N	Bromochloromethane	UG/L	1 U
L	VOCs	SW8260D	N	Bromodichloromethane	UG/L	1 U
L	VOCs	SW8260D	N	Bromoform	UG/L	1 U
L	VOCs	SW8260D	N	Bromomethane	UG/L	1 U
L	VOCs	SW8260D	N	Carbon disulfide	UG/L	1 U
L	VOCs	SW8260D	N	Carbon tetrachloride	UG/L	1 U
L	VOCs	SW8260D	N	Chlorobenzene	UG/L	1 U
L	VOCs	SW8260D	N	Chloroethane	UG/L	1 U
L	VOCs	SW8260D	N	Chloroform	UG/L	1 U
L	VOCs	SW8260D	N	Chloromethane	UG/L	1 U
L	VOCs	SW8260D	N	cis-1,2-Dichloroethene	UG/L	1 U
L	VOCs	SW8260D	N	cis-1,3-Dichloropropene	UG/L	1 U
L	VOCs	SW8260D	N	Cyclohexane	UG/L	1 U
L	VOCs	SW8260D	N	Dibromochloromethane	UG/L	1 U
L	VOCs	SW8260D	N	Dichlorodifluoromethane	UG/L	1 U
L	VOCs	SW8260D	N	Ethylbenzene	UG/L	1 U
L	VOCs	SW8260D	N	Isopropylbenzene	UG/L	1 U
L	VOCs	SW8260D	N	Methyl cyclohexane	UG/L	1 U
L	VOCs	SW8260D	N	Methyl Tertbutyl Ether	UG/L	1 U
L	VOCs	SW8260D	N	Methylene chloride	UG/L	1 U
L	VOCs	SW8260D	N	Styrene	UG/L	1 U
L	VOCs	SW8260D	N	Tetrachloroethene	UG/L	1 U
L	VOCs	SW8260D	N	Toluene	UG/L	1 U
L	VOCs	SW8260D	N	trans-1,2-Dichloroethene	UG/L	1 U
L	VOCs	SW8260D	N	trans-1,3-Dichloropropene	UG/L	1 U
L	VOCs	SW8260D	N	Trichloroethene	UG/L	1 U
L	VOCs	SW8260D	N	Trichlorofluoromethane	UG/L	1 U
L	VOCs	SW8260D	N	Vinyl chloride	UG/L	1 U
L	VOCs	SW8260D	N	Xylene, o	UG/L	1 U
L	VOCs	SW8260D	N	Xylenes (m&p)	UG/L	2 U

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

					Loc Name	QC	
					Lab Sample Delivery Group	R2502618	
					Field Sample Date	3/13/2025 0:00	
					Field Sample Id	Trip Blank 3	
					Qc Code	TB	
Matrix	**Method Class**	**Analysis Method**	**Fraction**	**Param Name**	**Result**	Final Result	Final Qualifier
L	Dissolved Gases	RSK175	N	Ethane	UG/L		
L	Dissolved Gases	RSK175	N	Ethene	UG/L		
L	Dissolved Gases	RSK175	N	Methane	UG/L		
L	Inorganics & Wet Chem	SM 2320 B-1997(2011)	N	Total Alkalinity, as CaCO3	MG/L		
L	Inorganics & Wet Chem	SM 4500-S2-F-2000(2011)	N	Sulfide	MG/L		
L	Inorganics & Wet Chem	SM5310B	N	Total Organic Carbon	MG/L		
L	Inorganics & Wet Chem	SW9056A	N	Chloride	MG/L		
L	Inorganics & Wet Chem	SW9056A	N	Nitrate as N	MG/L		
L	Inorganics & Wet Chem	SW9056A	N	Sulfate	MG/L		
L	METALS	SW6010D	D	Iron	UG/L		
L	METALS	SW6010D	D	Manganese	UG/L		
L	METALS	SW6010D	T	Iron	UG/L		
L	METALS	SW6010D	T	Manganese	UG/L		

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

Lab SDG	Lab Sample Id	Field Sample Id	Analysis Method	Fraction	Param Name	Lab Result Text	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Result	Lab Id
R2502461	R2502461-002	828120EW01010	SW8260D	N	Acetone	5	U	5	UJ	LCSL	UG/L	ALSR
R2502461	R2502461-004	8281020MW111I028	SW8260D	N	Acetone	5	U	5	UJ	LCSL	UG/L	ALSR

Created by: AP 4/16/2025
Checked by: TML 4/17/2025

CATEGORY A REVIEW
MARCH 2025 GROUNDWATER SAMPLING
CARRIAGE CLEANERS
BRIGHTON, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: NYSDEC Carriage Cleaner's
Method : SW-846 8260C (or specify)
Laboratory: ALS
Date: 4 15 2025
Reviewer: T. LePage
Review Level [X] CATEGORY A

SDG(s): R2501461
R2502511
R2502618

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? R2502461: Yes, see backup R2502618: No
   R2502511: Yes, see backup no quals
   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)
   lab sample id "8281020MW111I028" should have been "828120MW111I028"

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one) R2502461:
   all samples were ND, no quals
   R2502511
   all samples were ND, no quals
   Are Trip blanks free of contamination? YES NO (circle one) R2502618
   all samples were ND no quals

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within above QC limits? YES NO NA (circle one)
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   R2502461:
   see backup, LCSL UJ, potential high bias samples ND no quals
   Were all results within above QC limits? YES NO (circle one) R2502511
   see backup, potential high bias samples ND no quals
   R2502618:
   see backup, potential high bias smaples Nd no quals

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO R2502511
   Location MW-6
   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2502461
Project:	Carriage Cleaners/3616206118	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2502846-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,2,3-Trichlorobenzene all samples ND, no quals	**0.29 J**	1.0	0.25	1	03/17/25 12:36	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	03/17/25 12:36	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	03/17/25 12:36	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
1,4-Dioxane	40 U	40	13	1	03/17/25 12:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	03/17/25 12:36	
2-Hexanone	5.0 U	5.0	0.20	1	03/17/25 12:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	03/17/25 12:36	
Acetone	5.0 U	5.0	5.0	1	03/17/25 12:36	
Benzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
Bromochloromethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
Bromodichloromethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
Bromoform	1.0 U	1.0	0.25	1	03/17/25 12:36	
Bromomethane	1.0 U	1.0	0.70	1	03/17/25 12:36	
Carbon Disulfide	1.0 U	1.0	0.42	1	03/17/25 12:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	03/17/25 12:36	
Chlorobenzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
Chloroethane	1.0 U	1.0	0.23	1	03/17/25 12:36	
Chloroform	1.0 U	1.0	0.51	1	03/17/25 12:36	
Chloromethane	1.0 U	1.0	0.80	1	03/17/25 12:36	
Cyclohexane	1.0 U	1.0	0.60	1	03/17/25 12:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	03/17/25 12:36	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	03/17/25 12:36	
Dichloromethane	1.0 U	1.0	0.65	1	03/17/25 12:36	
Ethylbenzene	1.0 U	1.0	0.20	1	03/17/25 12:36	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	03/17/25 12:36	
Methyl Acetate	2.0 U	2.0	0.87	1	03/17/25 12:36	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	03/17/25 12:36	
Methylcyclohexane	1.0 U	1.0	0.20	1	03/17/25 12:36	
Styrene	1.0 U	1.0	0.20	1	03/17/25 12:36	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/17/25 12:36	
Toluene	1.0 U	1.0	0.20	1	03/17/25 12:36	

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2502461
Project:	Carriage Cleaners/3616206118	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2503023-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,2,3-Trichlorobenzene	**0.27 J**	1.0	0.25	1	03/20/25 13:31	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	03/20/25 13:31	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	03/20/25 13:31	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
1,4-Dioxane	40 U	40	13	1	03/20/25 13:31	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	03/20/25 13:31	
2-Hexanone	5.0 U	5.0	0.20	1	03/20/25 13:31	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	03/20/25 13:31	
Acetone	5.0 U	5.0	5.0	1	03/20/25 13:31	
Benzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
Bromochloromethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
Bromodichloromethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
Bromoform	1.0 U	1.0	0.25	1	03/20/25 13:31	
Bromomethane	1.0 U	1.0	0.70	1	03/20/25 13:31	
Carbon Disulfide	1.0 U	1.0	0.42	1	03/20/25 13:31	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	03/20/25 13:31	
Chlorobenzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
Chloroethane	1.0 U	1.0	0.23	1	03/20/25 13:31	
Chloroform	1.0 U	1.0	0.51	1	03/20/25 13:31	
Chloromethane	1.0 U	1.0	0.80	1	03/20/25 13:31	
Cyclohexane	1.0 U	1.0	0.60	1	03/20/25 13:31	
Dibromochloromethane	1.0 U	1.0	0.20	1	03/20/25 13:31	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	03/20/25 13:31	
Dichloromethane	1.0 U	1.0	0.65	1	03/20/25 13:31	
Ethylbenzene	1.0 U	1.0	0.20	1	03/20/25 13:31	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	03/20/25 13:31	
Methyl Acetate	2.0 U	2.0	0.87	1	03/20/25 13:31	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	03/20/25 13:31	
Methylcyclohexane	1.0 U	1.0	0.20	1	03/20/25 13:31	
Styrene	1.0 U	1.0	0.20	1	03/20/25 13:31	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/20/25 13:31	
Toluene	1.0 U	1.0	0.20	1	03/20/25 13:31	

all samples ND, no quals

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502461
Date Analyzed: 03/17/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2502846-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	20.4	20.0	102	75-125
1,1,2,2-Tetrachloroethane	8260D	16.9	20.0	85	78-126
1,1,2-Trichloroethane	8260D	19.3	20.0	97	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.4	20.0	97	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	19.7	20.0	98	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	19.0	20.0	95	71-118
1,2,3-Trichlorobenzene	8260D	19.1	20.0	95	67-136
1,2,4-Trichlorobenzene	8260D	19.6	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	18.1	20.0	91	55-136
1,2-Dibromoethane	8260D	18.9	20.0	95	82-127
1,2-Dichlorobenzene	8260D	19.4	20.0	97	80-119
1,2-Dichloroethane	8260D	18.6	20.0	93	71-127
1,2-Dichloropropane	8260D	18.8	20.0	94	80-119
1,3-Dichlorobenzene	8260D	19.5	20.0	97	83-121
1,4-Dichlorobenzene	8260D	19.0	20.0	95	79-119
1,4-Dioxane	8260D	316	400	79	44-154
2-Butanone (MEK)	8260D	14.8	20.0	74	61-137
2-Hexanone LCSL, UJ	8260D	14.8	20.0	74	63-124
4-Methyl-2-pentanone	8260D	16.1	20.0	80	66-124
Acetone	8260D	12.9	20.0	65	40-161
Benzene	8260D	19.5	20.0	97	79-119
Bromochloromethane	8260D	18.9	20.0	94	81-126
Bromodichloromethane	8260D	21.2	20.0	106	81-123
Bromoform	8260D	22.5	20.0	112	65-146
Bromomethane	8260D	21.7	20.0	108	42-166
Carbon Disulfide	8260D	19.0	20.0	95	66-128
Carbon Tetrachloride	8260D	20.5	20.0	103	70-127
Chlorobenzene	8260D	18.8	20.0	94	80-121
Chloroethane	8260D	18.8	20.0	94	62-131
Chloroform	8260D	18.8	20.0	94	79-120
Chloromethane	8260D	21.9	20.0	110	61-143
Cyclohexane	8260D	20.5	20.0	103	69-120
Dibromochloromethane	8260D	21.1	20.0	106	72-128

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502461
Date Analyzed: 03/17/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2502846-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	25.5	20.0	128	59-155
Dichloromethane samples ND, no quals	8260D	18.6	20.0	93	73-122
Ethylbenzene	8260D	19.3	20.0	96	76-120
Isopropylbenzene (Cumene)	8260D	20.8	20.0	104	77-128
Methyl Acetate	8260D	16.6	20.0	83	44-93
Methyl tert-Butyl Ether	8260D	19.0	20.0	95	75-118
Methylcyclohexane	8260D	20.2	20.0	101	51-129
Styrene	8260D	19.9	20.0	99	80-124
Tetrachloroethene (PCE)	8260D	19.5	20.0	97	72-125
Toluene	8260D	19.5	20.0	98	79-119
Trichloroethene (TCE)	8260D	19.5	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260D	19.4	20.0	97	71-136
Vinyl Chloride	8260D	21.7	20.0	109	74-159
cis-1,2-Dichloroethene	8260D	19.6	20.0	98	80-121
cis-1,3-Dichloropropene	8260D	22.1	20.0	111	77-122
m,p-Xylenes	8260D	39.2	40.0	98	80-126
o-Xylene	8260D	19.6	20.0	98	79-123
trans-1,2-Dichloroethene	8260D	19.3	20.0	97	73-118
trans-1,3-Dichloropropene	8260D	23.1	20.0	115	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502461
Date Analyzed: 03/20/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2503023-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	28.0	20.0	140	59-155
Dichloromethane samples ND, no quals	8260D	20.2	20.0	101	73-122
Ethylbenzene	8260D	20.3	20.0	101	76-120
Isopropylbenzene (Cumene)	8260D	21.9	20.0	110	77-128
Methyl Acetate	8260D	19.4	20.0 within pro ect limits	97 *	44-93
Methyl tert-Butyl Ether	8260D	20.0	20.0	100	75-118
Methylcyclohexane	8260D	20.9	20.0	105	51-129
Styrene	8260D	21.0	20.0	105	80-124
Tetrachloroethene (PCE)	8260D	20.1	20.0	101	72-125
Toluene	8260D	20.6	20.0	103	79-119
Trichloroethene (TCE)	8260D	20.4	20.0	102	74-122
Trichlorofluoromethane (CFC 11)	8260D	21.4	20.0	107	71-136
Vinyl Chloride	8260D	24.1	20.0	121	74-159
cis-1,2-Dichloroethene	8260D	20.4	20.0	102	80-121
cis-1,3-Dichloropropene	8260D	22.2	20.0	111	77-122
m,p-Xylenes	8260D	41.9	40.0	105	80-126
o-Xylene	8260D	20.3	20.0	102	79-123
trans-1,2-Dichloroethene	8260D	21.2	20.0	106	73-118
trans-1,3-Dichloropropene	8260D	22.7	20.0	113	71-133

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners
Sample Matrix: Water

Service Request: R2502511
Date Received: 03/12/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.
Manual Integrations may have been used in the quantitation of the results in this report. Manual Integrations are readily identified in the raw data on the Quantitation Reports (Organics) by the automatic placement of an “m” next to the sample result. For Ion Chromatography, the manual integrations are identified by the automatic placement of “manipulated” or "manually integrated" in the upper left corner of the chromatogram (Hexavalent Chromium) or “M” by the result in the “Type” column (anions). The reason for the manual integration is noted on the “after” chromatogram, which is found with the original chromatogram and quantitation report. All integrations follow the lab SOP ADM-INT “Manual Integration.”

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 03/12/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260D, 03/25/2025: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

not e aluated in this le el o alidation, no quals

Approved by _____ Date 03/27/2025

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2502511
Project:	Carriage Cleaners/3616206118	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2503149-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,1,2-Trichloroethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,2,3-Trichlorobenzene all samples ND, no quals	**0.27**	**J**	1.0	0.25	1	03/24/25 12:34	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	03/24/25 12:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.22	1	03/24/25 12:34	
1,2-Dibromoethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichlorobenzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichloroethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
1,4-Dioxane	40	U	40	6.4	1	03/24/25 12:34	
2-Butanone (MEK)	5.0	U	5.0	0.78	1	03/24/25 12:34	
2-Hexanone	5.0	U	5.0	0.20	1	03/24/25 12:34	
4-Methyl-2-pentanone	5.0	U	5.0	0.20	1	03/24/25 12:34	
Acetone	5.0	U	5.0	5.0	1	03/24/25 12:34	
Benzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
Bromochloromethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
Bromodichloromethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
Bromoform	1.0	U	1.0	0.25	1	03/24/25 12:34	
Bromomethane	1.0	U	1.0	0.70	1	03/24/25 12:34	
Carbon Disulfide	1.0	U	1.0	0.42	1	03/24/25 12:34	
Carbon Tetrachloride	1.0	U	1.0	0.34	1	03/24/25 12:34	
Chlorobenzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
Chloroethane	1.0	U	1.0	0.23	1	03/24/25 12:34	
Chloroform	1.0	U	1.0	0.51	1	03/24/25 12:34	
Chloromethane	1.0	U	1.0	0.40	1	03/24/25 12:34	
Cyclohexane	1.0	U	1.0	0.30	1	03/24/25 12:34	
Dibromochloromethane	1.0	U	1.0	0.20	1	03/24/25 12:34	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.21	1	03/24/25 12:34	
Dichloromethane	1.0	U	1.0	0.65	1	03/24/25 12:34	
Ethylbenzene	1.0	U	1.0	0.20	1	03/24/25 12:34	
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	03/24/25 12:34	
Methyl Acetate	2.0	U	2.0	0.37	1	03/24/25 12:34	
Methyl tert-Butyl Ether	1.0	U	1.0	0.20	1	03/24/25 12:34	
Methylcyclohexane	1.0	U	1.0	0.20	1	03/24/25 12:34	
Styrene	1.0	U	1.0	0.20	1	03/24/25 12:34	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	03/24/25 12:34	
Toluene	1.0	U	1.0	0.20	1	03/24/25 12:34	

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2502511
Project:	Carriage Cleaners/3616206118	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2503230-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,2,3-Trichlorobenzene all samples ND, no quals	**0.30 J**	1.0	0.25	1	03/25/25 12:02	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	03/25/25 12:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.22	1	03/25/25 12:02	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
1,4-Dioxane	40 U	40	6.4	1	03/25/25 12:02	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	03/25/25 12:02	
2-Hexanone	5.0 U	5.0	0.20	1	03/25/25 12:02	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	03/25/25 12:02	
Acetone	5.0 U	5.0	5.0	1	03/25/25 12:02	
Benzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
Bromochloromethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
Bromodichloromethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
Bromoform	1.0 U	1.0	0.25	1	03/25/25 12:02	
Bromomethane	1.0 U	1.0	0.70	1	03/25/25 12:02	
Carbon Disulfide	1.0 U	1.0	0.42	1	03/25/25 12:02	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	03/25/25 12:02	
Chlorobenzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
Chloroethane	1.0 U	1.0	0.23	1	03/25/25 12:02	
Chloroform	1.0 U	1.0	0.51	1	03/25/25 12:02	
Chloromethane	1.0 U	1.0	0.40	1	03/25/25 12:02	
Cyclohexane	1.0 U	1.0	0.30	1	03/25/25 12:02	
Dibromochloromethane	1.0 U	1.0	0.20	1	03/25/25 12:02	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	03/25/25 12:02	
Dichloromethane	1.0 U	1.0	0.65	1	03/25/25 12:02	
Ethylbenzene	1.0 U	1.0	0.20	1	03/25/25 12:02	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	03/25/25 12:02	
Methyl Acetate	2.0 U	2.0	0.37	1	03/25/25 12:02	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	03/25/25 12:02	
Methylcyclohexane	1.0 U	1.0	0.20	1	03/25/25 12:02	
Styrene	1.0 U	1.0	0.20	1	03/25/25 12:02	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/25/25 12:02	
Toluene	1.0 U	1.0	0.20	1	03/25/25 12:02	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502511
Date Analyzed: 03/24/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2503149-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	25.9	20.0	130	59-155
Dichloromethane samples ND, no quals	8260D	19.1	20.0	96	73-122
Ethylbenzene	8260D	18.4	20.0	92	76-120
Isopropylbenzene (Cumene)	8260D	19.5	20.0	98	77-128
Methyl Acetate	8260D	17.9	20.0	89	44-93
Methyl tert-Butyl Ether	8260D	20.5	20.0	102	75-118
Methylcyclohexane	8260D	18.9	20.0	94	51-129
Styrene	8260D	19.5	20.0	98	80-124
Tetrachloroethene (PCE)	8260D	18.4	20.0	92	72-125
Toluene	8260D	19.1	20.0	96	79-119
Trichloroethene (TCE)	8260D	19.5	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260D	20.3	20.0	101	71-136
Vinyl Chloride	8260D	21.6	20.0	108	74-159
cis-1,2-Dichloroethene	8260D	20.0	20.0	100	80-121
cis-1,3-Dichloropropene	8260D	22.3	20.0	112	77-122
m,p-Xylenes	8260D	38.0	40.0	95	80-126
o-Xylene	8260D	18.6	20.0	93	79-123
trans-1,2-Dichloroethene	8260D	19.3	20.0	96	73-118
trans-1,3-Dichloropropene	8260D	23.7	20.0	119	71-133

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502511
Date Analyzed: 03/25/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2503230-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	26.8	20.0	134	59-155
Dichloromethane samples ND, no quals	8260D	19.3	20.0	96	73-122
Ethylbenzene	8260D	19.8	20.0	99	76-120
Isopropylbenzene (Cumene)	8260D	21.3	20.0	107	77-128
Methyl Acetate	8260D	18.0	20.0	90	44-93
Methyl tert-Butyl Ether	8260D	20.9	20.0	104	75-118
Methylcyclohexane	8260D	19.6	20.0	98	51-129
Styrene	8260D	20.7	20.0	104	80-124
Tetrachloroethene (PCE)	8260D	19.8	20.0	99	72-125
Toluene	8260D	19.9	20.0	99	79-119
Trichloroethene (TCE)	8260D	20.1	20.0	101	74-122
Trichlorofluoromethane (CFC 11)	8260D	20.9	20.0	105	71-136
Vinyl Chloride	8260D	22.2	20.0	111	74-159
cis-1,2-Dichloroethene	8260D	20.4	20.0	102	80-121
cis-1,3-Dichloropropene	8260D	22.8	20.0	114	77-122
m,p-Xylenes	8260D	41.1	40.0	103	80-126
o-Xylene	8260D	20.2	20.0	101	79-123
trans-1,2-Dichloroethene	8260D	19.9	20.0	99	73-118
trans-1,3-Dichloropropene	8260D	24.3	20.0	121	71-133

Analytical Report

Client:	WSP USA Environment & Infrastructure Inc.	**Service Request:**	R2502618
Project:	Carriage Cleaners/3616206118	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2503149-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,2,3-Trichlorobenzene	**0.27 J**	1.0	0.25	1	03/24/25 12:34	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	03/24/25 12:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.22	1	03/24/25 12:34	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
1,4-Dioxane	40 U	40	6.4	1	03/24/25 12:34	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	03/24/25 12:34	
2-Hexanone	5.0 U	5.0	0.20	1	03/24/25 12:34	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	03/24/25 12:34	
Acetone	5.0 U	5.0	5.0	1	03/24/25 12:34	
Benzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
Bromochloromethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
Bromodichloromethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
Bromoform	1.0 U	1.0	0.25	1	03/24/25 12:34	
Bromomethane	1.0 U	1.0	0.70	1	03/24/25 12:34	
Carbon Disulfide	1.0 U	1.0	0.42	1	03/24/25 12:34	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	03/24/25 12:34	
Chlorobenzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
Chloroethane	1.0 U	1.0	0.23	1	03/24/25 12:34	
Chloroform	1.0 U	1.0	0.51	1	03/24/25 12:34	
Chloromethane	1.0 U	1.0	0.40	1	03/24/25 12:34	
Cyclohexane	1.0 U	1.0	0.30	1	03/24/25 12:34	
Dibromochloromethane	1.0 U	1.0	0.20	1	03/24/25 12:34	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	03/24/25 12:34	
Dichloromethane	1.0 U	1.0	0.65	1	03/24/25 12:34	
Ethylbenzene	1.0 U	1.0	0.20	1	03/24/25 12:34	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	03/24/25 12:34	
Methyl Acetate	2.0 U	2.0	0.37	1	03/24/25 12:34	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	03/24/25 12:34	
Methylcyclohexane	1.0 U	1.0	0.20	1	03/24/25 12:34	
Styrene	1.0 U	1.0	0.20	1	03/24/25 12:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	03/24/25 12:34	
Toluene	1.0 U	1.0	0.20	1	03/24/25 12:34	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: WSP USA Environment & Infrastructure Inc.
Project: Carriage Cleaners/3616206118
Sample Matrix: Water

Service Request: R2502618
Date Analyzed: 03/24/25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2503149-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	25.9	20.0	130	59-155
Dichloromethane samples ND, no quals	8260D	19.1	20.0	96	73-122
Ethylbenzene	8260D	18.4	20.0	92	76-120
Isopropylbenzene (Cumene)	8260D	19.5	20.0	98	77-128
Methyl Acetate	8260D	17.9	20.0	89	44-93
Methyl tert-Butyl Ether	8260D	20.5	20.0	102	75-118
Methylcyclohexane	8260D	18.9	20.0	94	51-129
Styrene	8260D	19.5	20.0	98	80-124
Tetrachloroethene (PCE)	8260D	18.4	20.0	92	72-125
Toluene	8260D	19.1	20.0	96	79-119
Trichloroethene (TCE)	8260D	19.5	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260D	20.3	20.0	101	71-136
Vinyl Chloride	8260D	21.6	20.0	108	74-159
cis-1,2-Dichloroethene	8260D	20.0	20.0	100	80-121
cis-1,3-Dichloropropene	8260D	22.3	20.0	112	77-122
m,p-Xylenes	8260D	38.0	40.0	95	80-126
o-Xylene	8260D	18.6	20.0	93	79-123
trans-1,2-Dichloroethene	8260D	19.3	20.0	96	73-118
trans-1,3-Dichloropropene	8260D	23.7	20.0	119	71-133

NYSDEC Carriage Cleaners

Location ID: MW-6

Parameters	Original Sample 828120MW06009	Duplicate Sample 828120-DUP	RPD %
PCE	19000	24000	23.25581

APPENDIX D

LOW FLOW GROUNDWATER DATA RECORDS

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-6B	DATE: 10/25/2022
PROJECT NUMBER: 3616206 18		START TIME: 0840	END TIME: 0915
SAMPLE ID: 828120MW06B018	SAMPLE TIME: 0912	SITE NAME/INSTALLATION: NYSDEC Site 828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	9.35 FT	FINAL DTW (BMP)	9.38 FT	PROT. CASING STICKUP (AGS)	NA FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.19 FT	SCREEN INTERVAL	UNK FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	19.84 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.02 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	13.015 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.365 GAL	DRAWDOWN/ TOTAL PURGED	0.015	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0840	BEGIN PURGING									
0845	9.37	175	14.2	0.98	1.50	6.91	11.6	41.7	18'	
0850	9.38	175	14.6	0.99	0.71	6.95	-7.4	20.0	18'	
0855	9.38	175	14.2	0.99	1.51	6.96	-6.9	9.51	"	
0900	9.38	175	14.2	0.99	1.50	6.96	-9.0	8.06	"	
0905	9.38	175	14.2	0.99	1.52	6.97	-9.7	8.17	"	
0910	9.38	175	14.2	0.99	1.51	6.97	-8.9	8.02	"	Colorless + odorless

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	14.2	0.99	1.51	6.97	-8.9	8.02

TEMP.: nearest degree (ex. 10.1 – 10)
COND.: 3 significant figure max (ex. 1.686 – 1.69)
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
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☑ SILICON TUBING
- ☑ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER
- ☐ PID
- ☑ WQ METER YSI
- ☑ TURB. METER Hach
- ☑ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ✓ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	VOC			No			No
	MNA			No			No

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☑

NO-PURGE METHOD UTILIZED: YES ☐ NO ☑

NUMBER OF GALLONS GENERATED: 1.365

NOTES

Colorless + odorless sample

DEVIATIONS FROM THE WORK PLAN

N/A

Sampler Signature: [signature] Print Name: Isaac Moses

Checked By: [signature] Date: 8/21/23

REV. 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Carriage Cleaners
PROJECT NUMBER	3616206118
SAMPLE ID	828120MW08B019
SAMPLE TIME	1057
LOCATION ID	MW-8B
DATE	10/25/22
START TIME	1000
END TIME	1100
SITE NAME/INSTALLATION	NYSDEC 828120
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	9.79 FT	FINAL DTW (BMP)	9.82 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	27.65 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	17.86 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.020 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	11.716 GAL 0.6528 gal	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.0128	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1025	BEGIN PURGING									
1030	9.82	200	14.9	0.92	0.70	7.22	1.5	31.4	19'	Colorless + Odorless
1035	9.82	200	14.9	0.92	0.35	7.04	7.8	20.1	19'	" "
1040	9.82	200	14.9	0.92	0.12	7.02	8.5	15.2	19'	" "
1045	9.82	200	14.9	0.93	0.00	7.03	5.4	10.9	19'	" "
1050	9.82	200	15.0	0.93	0.00	7.04	4.0	10.7	19'	" "
1055	9.82	200	15.0	0.93	0.00	7.05	2.8	11.0	19'	" "

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	15.0	0.93	0.00	7.05	2.8	11.0

TEMP: nearest degree (ex. 10.1 → 10)
COND: 3 significant figure max (ex. 1.686 → 1.69)
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
☑ ALCONOX
☑ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☑ SILICON TUBING
☑ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☑ WL METER Solonist
☐ PID
☑ WQ METER YSI
☑ TURB. METER Hach
☑ PUMP Peristaltic
☐ OTHER
☐ FILTERS NO. X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	VOC	8260B		NO	HCl	80 mL	NO
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.6

NOTES: Sampled @ 1057, colorless, odorless

DEVIATIONS FROM THE WORK PLAN: N/A

Sampler Signature: [signature] Print Name: Isaac Moore

Checked By: [signature] Date: 8/21/23

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: HA 114	DATE: 10/25/22
PROJECT NUMBER: 36162 04418		START TIME: 1210	END TIME: 1314
SAMPLE ID: 828120HA114012	SAMPLE TIME: 1252	SITE NAME/INSTALLATION: NYSDEC #828120	PAGE: 1 OF ?

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	8.95 FT	FINAL DTW (BMP)	9.85 FT	PROT. CASING STICKUP (AGS)	flush FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	14.68 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	5.73 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.1476 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041) 0.1632	0.935 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.365 GAL	DRAWDOWN/ TOTAL PURGED	0.1081	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1215	BEGIN PURGING									
1220	9.91	175	16.8	0.98	4.59	7.16	100.1	69.0	12'	Lt Brown color No odor
1225	10.01	150	16.8	1.40	4.16	6.92	39.7	80.3	12'	" " Turn down flow rate
1230	9.97	150	16.7	1.75	4.31	6.91	15.1	68.2	12'	" "
1235	9.95	150	16.7	1.95	3.11	6.95	5.3	22.5	12'	colorless, odorless
1240	9.85	150	16.7	2.09	3.19	6.96	1.6	9.7	12'	" "
1245	9.85	150	16.7	2.14	2.96	6.97	0.0	9.8	12'	" "
1250	9.85	150	16.8	2.05	2.94	6.98	0.8	9.1	12'	" "

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP: nearest degree (ex. 10.1 – 10)
COND.: 3 significant figure max (ex. 1.686 – 1.69)
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
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☑ SILICON TUBING
- ☑ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER Solonist
- ☐ PID
- ☑ WQ METER YSI
- ☑ TURB. METER Hach
- ☑ PUMP Ferris Multiple
- ☐ OTHER
- ☐ FILTERS NO. 1 TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	MNA	Multiple		No	Multiple		No
☑	VOC	8260B		No	HCl		Yes - DUP+MS/MSD
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☑ YES ☐ NO

NUMBER OF GALLONS GENERATED: 1.365

NO-PURGE METHOD UTILIZED: ☐ YES ☑ NO

NOTES

828120HA114012
828120 HA114 012 MS
828120 HA114 012 MSD
} 1252 + 828120 DUP @ —

Sampler Signature: Jeanne Moore Print Name: Jeanne Moore

Checked By: Date: 8/21/23

DEVIATIONS FROM THE WORK PLAN

REV. 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Clearances	LOCATION ID: MW-6
PROJECT NUMBER: 3616206118	START TIME: 0925
SAMPLE ID: 828120MW06009	SAMPLE TIME:
SITE NAME/INSTALLATION: NYSDEC # 828120	DATE: 10/25/22
	END TIME: 0950 (with sample TM)
	PAGE: 1 OF 1

WELL DIAMETER (IN.): [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES): [X] 1/8 [ ] 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)	9.10 FT	FINAL DTW (BMP)	10.15 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	10.15 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	1.05 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	1.05 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 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	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0925	BEGIN PURGING	- Dry almost immediately								
									10.15'	@ Bottom of well for intake - Producing less than 50 mL/min

Well Dry on 10/25/2022

Grab Sample 10/26/2022

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP: nearest degree (ex: 10.1 – 10)
COND: 3 significant figure max (ex: 1.686 – 1.69)
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: [ ] ALCONOX [ ] DEIONIZED WATER [ ] POTABLE WATER [ ] NITRIC ACID [ ] HEXANE [ ] METHANOL [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS: [ ] SILICON TUBING [ ] HDPE TUBING [ ] LDPE TUBING [ ] OTHER [ ] OTHER

[ ] S. STEEL PUMP MATERIAL [ ] PVC PUMP MATERIAL [ ] GEOPROBE SCREEN [ ] OTHER [ ] OTHER [ ] OTHER

EQUIPMENT USED: [ ] WL METER [ ] PID [ ] WQ METER [ ] TURB. METER [ ] PUMP [ ] OTHER [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	8260B VOC	8260B		NO	HCl	80 mL	NO

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED:

NOTES: Dry almost immediately, lowered tubing to bottom of well, got less than 50 mL/min - Call PM

Will sample 10/26/22 in AM (Grab)

Sampler Signature: Isaac Moore Print Name: Isaac Moore

Checked By: Date: 8/21/23

DEVIATIONS FROM THE WORK PLAN: - well dry 10/25

REV: 3.29.2019

* See back of Field sheet for 10/26 sample info →

Date 10/26/22

Well: MW-6 -> Dry 10/25, waited ~24 hrs to grab sample

DTW: 9.13

Sample ID: 828120MW06009

Sample Time: 0815

Sampled using peristaltic Pump For VOCs via 8260B

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Carriage Cleaners
PROJECT NUMBER	3616206118
SAMPLE ID	828120 MW09B018 MW09B018
SAMPLE TIME	0930
LOCATION ID	MW-93
DATE	10/26/22
START TIME	0830
END TIME	0935
SITE NAME/INSTALLATION	NYSDEC #828120
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.91 FT	FINAL DTW (BMP)	7.94 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	19.48 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	11.57 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.0195 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	7.55 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.665 GAL	DRAWDOWN/ TOTAL PURGED	0.007	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1500										
0840	BEGIN PURGING									
0845	7.92	150	15.0	0.75	0.66	7.60	-39.1	293	18	Cloudy, odorless
0850	7.92	150	15.1	0.74	0.31	7.02	-59.6	234	18	" "
0855	7.92	250	14.9	0.74	0.00	6.88	-63.4	226	18	" " Increase flow rate
0900	7.94	250	15.0	0.74	0.00	6.84	-66.0	175	18	" "
0905	7.94	250	15.1	0.74	0.00	6.83	-68.2	140	18	" "
0910	7.94	250	15.1	0.74	0.00	6.82	-69.8	119	18	" "
0915	7.94	250	15.0	0.74	0.00	6.80	-69.7	94.3	18	Colorless, odorless
0920	7.94	250	15.0	0.74	0.00	6.80	-69.9	95.0	18	" "
0925	7.94	250	15.0	0.74	0.00	6.79	-70.7	92.3	18	" "
0930	Sample									
~~0935~~										

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	15.0	0.74	0.00	6.79	-70.7	92.3

TEMP: nearest degree (ex. 10.1 – 10)
COND: 3 significant figure max (ex. 1.686 – 1.69)
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
☑ ALCONOX
☑ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☑ SILICON TUBING
☑ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☑ WL METER Solinist
☐ PID
☑ WQ METER YSI
☑ TURB. METER Hach
☑ PUMP Peristaltic
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC	8260		NO	HCl	80 mL	NO

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 2.665

NOTES: water more turbid than last time. I had trouble getting tubing deep 16' + stirred up well.

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Isaac Moge Print Name:

Checked By: Date: 8/21/23

REV: 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-111I	DATE: 10/26/22
PROJECT NUMBER: 3616206118		START TIME: 1130	END TIME: 1245
SAMPLE ID: 828120MW111I020	SAMPLE TIME: 1230	SITE NAME/INSTALLATION: NYSDEC # 828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	11.04 FT	FINAL DTW (BMP)	11.48 FT	PROT. CASING STICKUP (AGS)	FLUSH FT	TOC/TOR DIFFERENCE	– FT
WELL DEPTH (BMP)	29.20 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	18.16 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.071 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	2.96 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.664 GAL	DRAWDOWN/ TOTAL PURGED	0.426	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1145	BEGIN PURGING									
1150	11.38	160	15.9	1.59	1.92	6.93	33.9	18.1	20	Colorless, odorless
1155	11.44	160	15.9	1.59	0.00	6.67	29.8	11.6	20	" "
1200	11.45	160	16.0	1.62	0.00	6.63	23.2	7.33	20	" "
1205	11.44	160	16.0	1.60	0.00	6.65	13.8	7.19	20	" "
1210	11.45	160	15.9	1.35	0.00	6.68	-0.7	3.25	20	" "
1215	11.46	160	15.9	1.26	0.00	6.68	-4.7	2.80	20	" "
1220	11.48	160	15.9	1.24	0.00	6.67	-7.0	1.67	20	" "
1225	11.48	160	15.9	1.25	0.00	6.67	-7.5	1.73	20	" "

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	15.9	1.25	0.00	6.67	-7.5	1.73

TEMP: nearest degree (ex. 10.1 – 10)
COND: 3 significant figure max (ex. 1.686 – 1.69)
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: ☒ ALCONOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER; ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ✓ WL METER Solonist ☐ PID ☒ WQ METER YSI ☒ TURB. METER Hach ☒ PUMP Peristaltic ☐ OTHER ☐ FILTERS NO. ☒ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	VOC	8260B		NO	HCl	80 mL	NO
✓	MNA	Multiple		~~NO~~ YES	Multiple		NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☒
NUMBER OF GALLONS GENERATED: 1.664

NOTES: well to west in grass labelled as MW-111. MW-111I is in asphalt.

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: [signature] Print Name: Isaac Moser
Checked By: [signature] Date: 8/21/23

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME		LOCATION ID	DATE
Carriage Cleaners		MW-210	10/26/22
PROJECT NUMBER		START TIME	END TIME
3616206118		1330	1445
SAMPLE ID	SAMPLE TIME	SITE NAME/INSTALLATION	PAGE
828120MW21-0017	1420	NYSDEC # 828120	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.95 FT	FINAL DTW (BMP)	8.17 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	17.65 FT	SCREEN INTERVAL	unk. FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	9.7 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.835 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.58 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.022	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1345	BEGIN PURGING									
1350	8.17	200	16.5	0.96	0.00	6.78	-19.5	47.7	12	Lt Brown, odorless
1355	8.17	200	16.4	1.20 ~~0.00~~	0.00	6.57	-19.5	48.6	12	" "
1400	8.17	200	16.3	1.28	0.00	6.58	-24.4	8.7	12	Colorless odorless
1405	8.17	200	16.2	1.33	0.00	6.59	-26.4	8.3	12	Colorless, odorless
1410	8.17	200	16.2	1.33	0.00	6.60	-29.5	8.5	12	" "
1415	8.17	200	16.1	1.34	0.00	6.61	-31.4	8.0	12	" "

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	16.1	1.34	0.00	6.61	-31.4	8.0

TEMP: nearest degree (ex. 10.1 – 10)
COND: 3 significant figure max (ex. 1.686 – 1.69)
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:
- ☑ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS:
- ☑ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED:
- ☑ WL METER Solonist
- ☐ PID
- ☑ WQ METER YSI
- ☑ TURB. METER Hach
- ☑ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	VOC	8260		NO	HCl		Yes MS/MSD + DUP
☑	MNA	Multiple		NO	Multiple		

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED:

NOTES:

Sampler Signature: [signature] Print Name: Isaac Moore

Checked By: [signature] Date: 8/21/23

DEVIATIONS FROM THE WORK PLAN:

REV 3.29.2019

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Cairrage Cleaners / Former Speedy's Cleaners
PROJECT NUMBER: 3616206118 / 3616206120
PROJECT LOCATION: 2101 / 2150 Monroe Ave, Brighton, NY
WEATHER CONDITIONS (AM): 55°F, clear
WEATHER CONDITIONS (PM):

TASK NO: DATE: 10/26/22
MACTEC CREW: IM DG
SAMPLER NAME: I. Moser
SAMPLER SIGNATURE:
CHECKED BY: VMW DATE: 8/21/23

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
MODEL NO.: Pro Plus
UNIT ID NO.: 36431

AM CALIBRATION Start Time 0716 /End Time 0740

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.00	+/- 0.1 pH Units
pH (7)	SU	7.0		+/- 0.1 pH Units
pH (10)	SU	10.0	10.01	+/- 0.1 pH Units
Redox	+/- mV	240	240	+/- 10 mV
Conductivity	mS/cm	1.413	1.41	+/- 0.5 % of standard
DO (saturated)	%	100	99.6	+/- 2% of standard
DO (saturated)	mg/L[1] (see Chart 1)			+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1		< 0.5 mg/L
Temperature	°C		13.9	
Baro. Press.	mmHg		741.2	

POST CALIBRATION CHECK Start Time 0745 /End Time

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.0	+/- 0.3 pH Units
240	240	+/- 10 mV
1.413	1.41	+/- 5% of standard
		+/- 0.5 mg/L of standard

TURBIDITY METER

METER TYPE: Hach
MODEL NO.: 2100Q
UNIT ID NO.: 45319

	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)
~~0.1~~ Standard	NTU	<0.1	10.0	~~0.1~~	10	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.0	20	20	+/- 5% of standard
100 Standard	NTU	100	100.0	100	100	+/- 5% of standard
800 Standard	NTU	800	800.0	800	800	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE:
MODEL NO.:
UNIT ID NO.:

	Units	Standard Value	Meter Value	Standard Value	Meter Value	
Background	ppmv	<0.1		<0.1		within 5 ppmv of BG
Span Gas	ppmv	100		100		+/- 10% of standard

O_2-LEL 4 GAS METER

METER TYPE:
MODEL NO.:
UNIT ID NO.:

	Units	Standard Value	Meter Value	Standard Value	Meter Value	
Methane	%	50		50		+/- 10% of standard
O_2	%	20.9		20.9		+/- 10% of standard
H_2S	ppmv	25		25		+/- 10% of standard
CO	ppmv	50		50		+/- 10% of standard

OTHER METER

METER TYPE:
MODEL NO.:
UNIT ID NO.:

See Notes Below for Additional Information

☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source:
Lot#/Date Produced:
Trip Blank Source: Laboratory provided
Sample Preservatives Source:
Disposable Filter Type: in-line 0.45µm cellulose
Calibration Fluids / Standard Source:
- DO Calibration Fluid (<0.1 mg/L)
- Other
- Other
- Other

	Cal. Standard Lot Number	Exp. Date
pH (4)		
pH (7)		
pH (10)		
ORP		
Conductivity		
<0.1 Turb. Stan.		
20 Turb. Stan.		
100 Turb. Stan.		
800 Turb. Stan.		
PID Span Gas		
O_2-LEL Span Gas		
Other		

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations
** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries
1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010

MACTEC
511 Congress Street, Portland Maine 04101

FIELD INSTRUMENT CALIBRATION RECORD

FIELD INSTRUMENT CALIBRATION RECORD

PROJECT NAME: Cairrage Cleaners / Former Speedy's Cleaners
PROJECT NUMBER: 3616206118 / 3616206120
PROJECT LOCATION: 2101 / 2150 Monroe Ave, Brighton, NY
WEATHER CONDITIONS (AM): 55° F, clear
WEATHER CONDITIONS (PM):

TASK NO: DATE: 10/25/22
MACTEC CREW: IM DG
SAMPLER NAME: J. Moser
SAMPLER SIGNATURE:
CHECKED BY: VMW DATE: 8/21/23

MULTI-PARAMETER WATER QUALITY METER

METER TYPE: YSI
MODEL NO.: Pro Plus
UNIT ID NO.: 34431

AM CALIBRATION Start Time 0730 /End Time 0800

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.01	+/- 0.1 pH Units
pH (7)	SU	7.0	7.02	+/- 0.1 pH Units
pH (10)	SU	10.0		+/- 0.1 pH Units
Redox	+/- mV	240	240	+/- 10 mV
Conductivity	mS/cm	1.413	1.42	+/- 0.5 % of standard
DO (saturated)	%	100	99.9	+/- 2% of standard
DO (saturated)	mg/L [1] (see Chart 1)			+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1		< 0.5 mg/L
Temperature	°C		13°	
Baro. Press.	mmHg		748	

POST CALIBRATION CHECK Start Time 0800 /End Time 0810

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.03	+/- 0.3 pH Units
240	241	+/- 10 mV
1.413	1.413	+/- 5% of standard
		+/- 0.5 mg/L of standard

TURBIDITY METER

METER TYPE: Hach
MODEL NO.: 2100 Q
UNIT ID NO.: 45319

	Units	Standard Value	Meter Value	Standard Value	Meter Value	*Acceptance Criteria (PM)
~~<0.1~~ 10.0 Standard	NTU	~~<0.1~~ 10.0	10.0	~~10.0 <0.1~~	10.0	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.0	20	20.0	+/- 5% of standard
100 Standard	NTU	100	100.0	100	100.0	+/- 5% of standard
800 Standard	NTU	800	800.0	800	800.0	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE:
MODEL NO.:
UNIT ID NO.:

Background	ppmv	<0.1		<0.1	within 5 ppmv of BG
Span Gas	ppmv	100		100	+/- 10% of standard

O_2-LEL 4 GAS METER

METER TYPE:
MODEL NO.:
UNIT ID NO.:

Methane	%	50		50	+/- 10% of standard
O_2	%	20.9		20.9	+/- 10% of standard
H_2S	ppmv	25		25	+/- 10% of standard
CO	ppmv	50		50	+/- 10% of standard

OTHER METER

METER TYPE:
MODEL NO.:
UNIT ID NO.:

See Notes Below for Additional Information

☐ Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.
☐ Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source:
Lot#/Date Produced:
Trip Blank Source: Laboratory provided
Sample Preservatives Source:
Disposable Filter Type: in-line 0.45µm cellulose
Calibration Fluids / Standard Source:
- DO Calibration Fluid (<0.1 mg/L)
- Other
- Other
- Other

	Cal. Standard Lot Number	Exp. Date
pH (4)		
pH (7)		
pH (10)		
ORP		
Conductivity		
<0.1 Turb. Stan.		
20 Turb. Stan.		
100 Turb. Stan.		
800 Turb. Stan.		
PID Span Gas		
O_2-LEL Span Gas		
Other		

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations
** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries
1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Carriage Cleaners
PROJECT NUMBER	361620611B
SAMPLE ID	828120 MW210015
SAMPLE TIME	0900
LOCATION ID	MW-210
DATE	4/13/23
START TIME	0820
END TIME	0910
SITE NAME/INSTALLATION	NJDEC#828120
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	6.08 FT	FINAL DTW (BMP)	6.72 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	17.66 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	11.58 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.105 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.8991 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.067	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0820	BEGIN PURGING									
0825	6.65	150	11.60	1.010	0.0	6.89	-18.2	25.9	15	
0830	6.67	150	11.70	1.008	0.0	6.85	-23	31.6	15	
0835	6.68	150	11.94	1.003	0.0	6.83	-28.9	14.4	15	
0840	6.69	150	12.05	1.002	0.0	6.82	-31.7	7.38	15	
0845	6.70	150	12.03	0.997	0.0	6.82	-33.1	6.97	15	
0850	6.70	150	12.07	0.996	0.0	6.82	-33.7	6.55	15	
0855	6.71	150	12.03	0.992	0.0	6.82	-34	5.32	15	
0900	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER ____

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER ____
☐ OTHER ____
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER ____
☐ OTHER ____
☐ OTHER ____

EQUIPMENT USED
☒ WL METER Solinst
☐ PID ____
☒ WQ METER Hanna
☒ TURB. METER Lamotte
☒ PUMP Peristaltic
☐ OTHER ____
☐ FILTERS NO. ____ TYPE ____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs 8260B						
☒	Total organic Carbon						
☒	Sulfide by SM4500S-F						
☒	Alkalinity by SM2320B						
☒	Sulfide						
☒	Iron total/dissolved						
☒	dissolved gasses						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.56

NOTES: 828120 MW210015 @ 0900

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: [signature] Date: 4/13/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: EW-1	DATE: 4/12/23
PROJECT NUMBER: 3616206118		START TIME: 1145	END TIME: 1240
SAMPLE ID: 828120EW01010	SAMPLE TIME: 1230	SITE NAME/INSTALLATION: NJDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	5.21 FT	FINAL DTW (BMP)	5.55 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	12.44 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	7.23 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.056 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.186 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.76 GAL	DRAWDOWN/ TOTAL PURGED	0.032	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1145	BEGIN PURGING									
1150	5.49	150	13.07	0.567	0.0	7.16	0.4	3.49	10	
1155	5.50	150	12.84	0.569	0.0	7.15	-15.5	0.57	10	
1200	5.52	150	13.10	0.580	0.0	7.15	-20.7	0.87	10	
1205	5.53	150	12.67	0.584	0.0	7.15	-20.8	0.54	10	
1210	5.53	150	13.14	0.585	0.0	7.14	-26.7	0.55	10	
1215	5.53	150	13.30	0.589	0.0	7.13	-23.9	0.13	10	
1220	5.54	150	13.10	0.592	0.0	7.13	-22.5	0.47	10	
1225	5.54	150	13.21	0.592	0.0	7.12	-21.8	0.24	10	
1230	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
pH: nearest tenth (ex. 5.53 5.5)
DO: nearest tenth (ex. 5.51 5.5)
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
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst
- ☐ PID
- ☒ WQ METER Hanna
- ☒ TURB. METER Lamotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs 8260B						
☒	Total organic Carbon						
☒	Sulfide by SM4500S-F						
☒	Alkalinity by SM2320B						
☒	Methane						
☒	Iron total/ dissolved						
☒	Dissolved gasses						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.76

NOTES: 828120 EW01010 @ 1230

Sampler Signature: [signature] Print Name: Mark Felons

Checked By: [signature] Date: 4/12/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-6	DATE: 4/12/23
PROJECT NUMBER: 3616206118		START TIME: 1320	END TIME: ~~1315~~ 1410
SAMPLE ID: 828120MW06009	SAMPLE TIME: 1400	SITE NAME/INSTALLATION: NJDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER ____

TUBING ID (INCHES): [X] 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)	7.18 FT	FINAL DTW (BMP)	7.63 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	10.09 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	2.91 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.018 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	0.119 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	BEGIN PURGING									
1325	7.45	150	12.03	0.423	7.74	7.42	18.8	11.3	9	
1330	7.53	150	11.20	0.410	7.18	7.34	20.8	1.11	9	
1335	7.55	150	10.93	0.415	6.99	7.33	21.5	0.71	9	
1340	7.57	150	11.05	0.420	6.88	7.31	21.2	0.32	9	
1345	7.59	150	11.05	0.429	6.61	7.29	22	0.15	9	
1350	7.60	150	11.07	0.437	6.43	7.27	22.6	0.21	9	
1355	7.61	150	11.05	0.439	6.33	7.27	23.1	0.19	9	
1400	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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] ALCONOX
- [X] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER ____

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

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

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

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[X]	VOCs 8260B						
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

NUMBER OF GALLONS GENERATED: 1.56

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

NOTES: 828120MW06009 @ 1400

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: [signature] Date: 4/12/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-6B	DATE: 4/12/23
PROJECT NUMBER: 361620618		START TIME: 1425	END TIME: 1510
SAMPLE ID: 828120MW06B027	SAMPLE TIME: 1505	SITE NAME/INSTALLATION: NJDEC HSRP	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.06 FT	FINAL DTW (BMP)	7.42 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.24 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	22.18 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.236 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	14.55 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.151	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1425	BEGIN PURGING									
1430	7.41	150	13.27	0.736	0.0	7.01	-54.8	37.1	27	
1435	7.41	150	13.25	0.733	0.0	7.01	-57.8	26.5	27	
1440	7.41	150	13.19	0.732	0.0	7.01	-59.9	22.4	27	
1445	7.41	150	13.48	0.728	0.0	7.01	-62	24.0	27	
1450	7.41	150	13.40	0.728	0.0	7.01	-66.3	17.0	27	
1455	7.41	150	13.21	0.725	0.0	7.01	-663	14.5	27	
1500	7.41	150	13.30	0.723	0.0	7.01	-66.1	15.1	27	
1505	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst
- ☐ PID
- ☒ WQ METER Horiba
- ☒ TURB. METER LaMotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs 8260B						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.56

NOTES: 828120MW06B027 @1505

Sampler Signature: [signature] Print Name: Mark Fielding

Checked By: [signature] Date: 4/12/23

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-8B	DATE: 4/12/23
PROJECT NUMBER: 3616206118		START TIME: 1030	END TIME: 1100
SAMPLE ID: 828120MW08B027	SAMPLE TIME: 1100	SITE NAME/INSTALLATION: NJDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.91 FT	FINAL DTW (BMP)	8.15 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.24 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	21.33 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.157 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	13.99 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.17 GAL	DRAWDOWN/ TOTAL PURGED	0.135	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1030	BEGIN PURGING									
1035	8.15	150	13.09	0.805	0.13	6.98	-4	15.2	27	
1040	8.15	150	13.17	0.811	0.0	6.98	-10.3	18.6	27	
1045	8.15	150	13.00	0.814	0.0	6.98	-12.3	15.2	27	
1050	8.15	150	13.30	0.810	0.0	6.98	-13.2	15.9	27	
1055	8.15	150	13.46	0.812	0.0	6.98	-14.3	16.8	27	
1100	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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 (443.1 44, 191 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☒ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER Solinst
- ☐ PID
- ☑ WQ METER Hanna
- ☒ TURB. METER Lamotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B					

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.17

NOTES: 828120MW08B027@1100

Sampler Signature: [signature] Print Name: Mark Fulong

Checked By: [signature] Date: 4/12/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-111I	DATE: 4/11/23
PROJECT NUMBER: 36162 06 118		START TIME: 1550	END TIME: 1630
SAMPLE ID: 828120MW111I013	SAMPLE TIME: 1630	SITE NAME/INSTALLATION: NYDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	8.18 FT	FINAL DTW (BMP)	9.89 FT	PROT. CASING STICKUP (AGS)	FLUSH FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	15.32 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	7.14 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.280 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.171 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.180	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1550	BEGIN PURGING									
1555	9.78	150	14.11	1.002	1.09	7.03	-9.8	0.99	13	
1600	9.80	150	~~13.95~~	1.00	0.96	7.01	-9.2	0.02	13	
1605	9.80	150	13.76	1.001	0.93	7.01	-8.9	1.31	13	
1610	9.80	150	13.98	0.99	1.01	7.01	-7	2.01	13	
1615	9.80	150	13.41	0.99	0.90	7.01	-6.3	0.44	13	
1620	9.81	150	13.34	0.98	0.96	7.00	-6.2	0.73	13	
1625	9.82	150	13.29	0.98	0.94	6.99	-6.5			
1630	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 - 10)
COND.: 3 significant figure max (ex. 1.086 - 1.09)
pH: nearest tenth (ex. 5.55 - 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 (43.1 - 44, 191 - 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☒ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst
- ☐ PID
- ☒ WQ METER Hanna
- ☒ TURB. METER Lamotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B					
☒	Total organic carbon						
☒	Suíde by	SM4500S-F					
☒	Alkalinity by	SM2320B					
☒	Multi lp						
☒	IRon total/dissolved						
☒	dissolved gasses						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.56

NOTES: 828120MW111I@1630

Sampler Signature: [signature] Print Name: Mark Falcone

Checked By: [signature] Date: 4/11/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage cleaners		LOCATION ID: HA-114	DATE: 9/13/23
PROJECT NUMBER: 361620618		START TIME: 1015	END TIME: 1105
SAMPLE ID: 828120HA114013	SAMPLE TIME:	SITE NAME/INSTALLATION: NJDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.80 FT	FINAL DTW (BMP)	8.68 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	14.74 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	6.94 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	.15 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.14 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.56 GAL	DRAWDOWN/ TOTAL PURGED	0.093	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1015	BEGIN PURGING									
1020	9.38	250	12.06	1.888	1.57	6.90	13.6	55.5	13	lowered purge rate
1025	9.09	150	12.64	2.276	2.17	6.94	0.4	19.3	13	
1030	8.71	150	13.05	2.513	2.36	6.96	-4	6.02	13	
1035	8.69	150	13.23	2.418	2.22	6.96	-3.2	6.30	13	
1040	8.68	150	13.04	2.388	2.24	6.96	-0.4	5.37	13	
1045	8.68	150	13.01	2.361	2.2	6.96	0.1	5.11	13	
1050	8.68	150	12.99	2.372	2.26	6.96	0.9	5.26	13	
1055	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst
- ☐ PID
- ☒ WQ METER Hanna
- ☒ TURB. METER Lanatte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs 8260B						
☒	Total organic carbon						
☒	Sulfide by SM4500S-F						
☒	Alkalinity by SM2320B						
☒	*Methane*						
☒	Iron total/dissolved						
☒	dissolved gasses						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.56

NOTES: 828120HA114013@1055

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: [signature] Date: 9/13/23

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage/Cleaners		LOCATION ID: MW-9B	DATE: 4/11/23
PROJECT NUMBER: 361620618		START TIME: 1320	END TIME: 1405
SAMPLE ID: 828120MW9B017	SAMPLE TIME: 1405	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	5.31 FT	FINAL DTW (BMP)	5.56 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	19.42 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	14.11 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.6 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	9.26 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.75 GAL	DRAWDOWN/ TOTAL PURGED	0.0934	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±5%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	BEGIN PURGING									
1325	5.31	150	14.88	.716	0.0	6.84	-80.3	57.6	17.0	
1330	5.51	150	14.46	.708	0.0	6.80	-85.7	23.3	17.0	
1335	5.51	150	15.50	.708	0.0	6.79	-91.7	18.3	17.0	
1340	5.52	150	15.29	.706	0.0	6.79	-91.4	17.2	17.0	
1345	5.52	150	15.02	.701	0.0	6.80	-91.8	9.59	17.0	
1350	5.53	150	15.05	.702	0.0	6.80	-93.0	8.35	17.0	
1355	5.53	150	14.56	.699	0.0	6.81	-91.9	6.79	17.0	
1400	5.54	150	14.54	.698	0.0	6.81	-92.5	6.92	17.0	
1405	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER Solinst
☐ PID
☒ WQ METER Hanna
☒ TURB. METER LaMotte
☒ PUMP Peristaltic
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ VOCs 8260B						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.75

NOTES: 828120 MW9B017 @ 1405
828120 MW9B017 MS @ 1405
828120 MW9B017 MSD @ 1405
DUP @ 1405

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: [signature] Date: 4/11/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-9	DATE: 4/11/23
PROJECT NUMBER: 3616206118		START TIME: 1140	END TIME: 1225
SAMPLE ID: 828120MW09008	SAMPLE TIME: 1215	SITE NAME/INSTALLATION: NYSDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	6.14 FT	FINAL DTW (BMP)	8.46 FT	PROT. CASING STICKUP (AGS)	Flush FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	9.61 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	3.47 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	.38 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	0.569 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.37 GAL	DRAWDOWN/ TOTAL PURGED	0.279	PRESSURE TO PUMP	NA PSI

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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1140	BEGIN PURGING									
1145	6.78	150	10.71	1.92	0.05	6.90	133	2.04	8.0	
1150	6.88	150	10.56	1.97	0.0	6.88	-82	1.03	8.0	
1155	7.42	150	10.81	2.02	0.0	6.85	-101	0.88	8.0	
1200	7.65	150	11.04	2.04	0.0	6.85	-105	0.96	8.0	
1205	7.91	150	11.10	2.04	0.0	6.87	-102	0.35	8.0	Pump lowered .5 FT
1210	8.15	150	11.33	2.04	0.0	6.86	-104	0.75	8.5	
1215	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 10)
COND.: 3 significant figure max (ex. 1.686 1.69)
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
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER New Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solonist
- ☐ PID
- ☒ WQ METER Hanna
- ☒ TURB. METER Lamotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO. X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	VOCs 8260B						
X	Total Organic Carbon						
X	Sulfide by SM4500S-F						
X	Alkalinity by SM2320B						
X	**Multiple**						
X	Iron total/dissolved						
X	Dissolved Gasses						

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.37

NOTES: Sample 828120MW09008 @ 1215

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: [signature] Date: 4/11/23

DEVIATIONS FROM THE WORK PLAN: —

REV. 3/29/2010

WSP

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620611B

Monitoring Well: EW-1
Field Personnel: MWK PCLong
Date: 10/17/23
Weather: 50°F Rain
Page: 1 of 1

Well Depth (ft btoc): 24.75
Well Diameter (in): 4 6
Well Condition: Good
Measured Well Depth (ft btoc): 24.75
Depth to Water (ft btoc): 7.19
Screened/Open Interval (ft btoc):

PID Readings (ppm): Background: N/M
Beneath outer cap: N/M
Beneath inner cap: N/M
Depth of Pump (ft btoc): 22 Ft
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
0925	X		14.90	/	6.87	/	.804	/	120	/	0.0	/	4.46	/	7.51	/	200	—
0930	X		14.97	.47	6.88	.01	.802	.25	117	3	0.0	0	6.15	37.89	7.62	.11	200	—
0935	X		15.01	.21	6.88	0	.802	0	114	3	0.0	0	9.27	50.73	7.79	.17	200	—
0940	X		15.02	.07	6.89	.01	.801	.12	111	3	0.0	0	7.63	17.69	7.94	.15	200	—
0945	X		15.02	0	6.90	.01	.797	.5	109	2	0.0	0	6.87	9.96	8.01	.10	200	—
0950	X		15.07	.33	6.90	0	.795	.25	108	1	0.0	0	4.64	3.35	8.18	.14	200	—
0955	X	X	15.08	.07	6.90	0	.794	.13	107	1	0.0	0	6.21	6.48	8.30	.12	200	—

Total Volume Purged: 2.5 GAL Final Water Level: 8.64 Final Well Depth (ft) 24.75

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: Clear
Ferrous Iron (ppm): N/M

Analysis: see COC

Comments: 828120-EW-1-022@1000

WSP

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620611B

Monitoring Well: MW-111I
Field Personnel: MF
Date: 10/17/23
Weather: 50°F overcast
Page: 1 of 1

Well Depth (ft btoc): 29.19
Well Diameter (in): 2
Well Condition: good
Measured Well Depth (ft btoc): 29.19
Depth to Water (ft btoc): 10.97
Screened/Open Interval (ft btoc):

PID Readings (ppm): Background: /
Beneath outer cap: /
Beneath inner cap: /
Depth of Pump (ft btoc): 27
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1100	X		14.63	/	6.81	/	1.562	/	59	/	1.4	/	11.5	/	11.31	/	200	—
1105	X		14.84	1.44	6.82	.01	1.549	.64	43	16	0.0	100	14.6	26.96	11.33	.02	200	—
1110	X		14.91	.82	6.82	0	1.551	.65	35	8	0.0	0	13.5	7.53	11.37	.04	200	—
1115	X		14.94	.2	6.81	.01	1.545	2.58	19	16	0.0	0	12.9	4.44	11.38	.01	200	—
1120	X		15.02	.54	6.81	0	1.460	.09	-65	84	0.0	0	11.9	7.75	11.38	0	200	—
1125	X		15.03	.07	6.81	0	1.313	6.43	-93	28	0.0	0	13	9.24	11.39	.01	200	—
1130	X		15.01	.13	6.80	.01	1.286	2.29	-110	17	0.0	0	8.01	38.38	11.40	.01	200	—
1135	X		15.01	0	6.79	.01	1.280	0	-114	4	0.0	0	7.49	7.49	11.40	0.0	200	—
1140	X		15.01	0	6.79	0	1.271	.78	-119	5	0.0	0	6.76	9.75	11.41	.01	200	—
1145		X	15.05	.27	6.79	.0	1.268	.79	-123	4	0.0	0	6.19	8.43	11.41	0	200	—

Total Volume Purged: 36AL
Final Water Level: 11.43
Final Well Depth (ft): 29.19

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: clear
Ferrous Iron (ppm): NM

Analysis: see COC

Comments: 828120-MW-111I-027 @ 1145

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 30162-06118

Monitoring Well: MW-8B
Field Personnel: MF
Date: 10/17/23
Weather: 50°F overcast
Page: 1 of 1

Well Depth (ft btoc): 29.14
Well Diameter (in): 4
Well Condition: Good
Measured Well Depth (ft btoc): 29.14
Depth to Water (ft btoc): 9.91
Screened/Open Interval (ft btoc): —

PID Readings (ppm): Background: 1
Beneath outer cap: —
Beneath inner cap: —
Depth of Pump (ft btoc): 21
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1315	X		13.44	/	6.83	/	1.026	/	-52	/	0.0	/	15.7	/	9.88	/	200	—
1320	X		13.76	.13	6.81	.02	1.027	.18	-67	15	0.0	0	13.8	12.1	9.89	.01	200	—
1325	X		13.82	.44	6.81	0	1.029	.19	-72	5	0.0	0	13	5.8	9.90	.01	200	—
1330	X		13.79	.22	6.81	0	1.029	0	-74	2	0.0	0	15.4	18.5	9.90	0	200	—
1335	X		13.78	.07	6.81	0	1.030	.98	-76	2	0.0	0	16.8	9.09	9.90	0	200	—
1340	X		13.85	.51	6.81	0	1.026	.39	-78	2	0.0	0	15.3	8.93	9.89	.01	200	—
1345	X	X	13.86	.07	6.81	0	1.029	.29	-79	1	0.0	0	14.2	7.19	9.89	0	200	—

Total Volume Purged: 2.5 GAL
Final Water Level: 9.89
Final Well Depth (ft): 29.14

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: Clear
Ferrous Iron (ppm): —

Analysis: See COC

Comments: 828120-MW-8B-027 @ 1345

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620618

Monitoring Well: MW-6
Field Personnel: MF
Date: 10/18/23
Weather: 50°F Overcast
Page: 1 of 1

Well Depth (ft btoc): 29.09
Well Diameter (in): 4
Well Condition: Good
Measured Well Depth (ft btoc): 29.09
Depth to Water (ft btoc): 9.34
Screened/Open Interval (ft btoc):

PID Readings (ppm): Background: /
Beneath outer cap:
Beneath inner cap:
Depth of Pump (ft btoc): 27
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
0910	X		13.22	/	6.87	/	.940	/	38	/	0.3	/	129	/	9.28	/	200	—
0915	X		13.43	1.56	6.81	.06	.941	.11	17	21	0.0	100	65.1	49.5	9.28	0	200	—
0920	X		13.44	.07	6.82	.01	.943	.21	9	8	0.0	0	59.3	8.91	9.28	0	200	—
0925	X		13.43	.07	6.81	.01	.943	0	4	5	0.0	0	62	4.65	9.28	0	200	—
0930	X		13.46	.22	6.81	0	.943	0	-16	20	0.0	0	51.5	16.94	9.28	0	200	—
0935	X		13.45	.07	6.82	.01	.968	3.71	-13	3	0.0	0	44.3	13.9	9.28	0	200	—
0940	X		13.47	.15	6.82	0	.882	2.86	-21	8	0.0	0	47.8	7.9	9.29	.01	200	—
0945	X		13.52	.37	6.82	0	.861	2.4	-27	6	0.0	0	43.5	9	9.29	0	200	—
0950		X	13.51	.07	6.82	0	.844	1.97	-35	8	0.0	0	46.8	7.59	9.29	0	200	—

Total Volume Purged: 3 GAL
Final Water Level: 9.30
Final Well Depth (ft): 29.09

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: Brown Tint
Ferrous Iron (ppm):

Analysis: See COC

Comments: 828120-MW-6-027 @ 0950

wsp

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 36162806 118

Monitoring Well: MW-6B
Field Personnel: MF
Date: 10/18/23
Weather: 50°F Overcast

Well Depth (ft btoc): 10
Well Diameter (in): 1
Well Condition: Good
Measured Well Depth (ft btoc): 10
Depth to Water (ft btoc): 9.34
Screened/Open Interval (ft btoc): —

PID Readings (ppm): Background: —
Beneath outer cap: —
Beneath inner cap: —
Depth of Pump (ft btoc): 9.5
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1010	X		13.34	/	7.27	/	.870	/	-22	/	6.0	/	32.3	/	9.75	/	200	—
1015	X		13.89	4.12	7.16	.11	.854	.184	6	28	0.0	0	29.2	9.6	9.75	@	200	—
1020	X		13.52	2.66	7.31	.15	.847	.86	8	2	0.0	0	36.1	23.6	9.75	0	200	—
1025	X		13.48	.3	7.43	.12	.811	.35	11	3	0.0	0	17	52	9.76	.01	200	—
1030	X		13.67	1.41	7.48	.05	.840	.47	13	2	0.0	0	11.8	30.6	9.76	0	200	—
1035	X		13.65	.15	7.49	.01	.838	.24	13	0	0.0	0	10.9	7.63	9.76	0	200	—
1040	X	X	13.76	.8	7.50	.01	.837	.12	14	1	0.0	0	10.1	7.34	9.76	0	200	—
1045		X	13.71	.36	7.50	0	.836	.12	14	0	0.0	0	10.4	2.97	9.76	0	200	—

Total Volume Purged: 2.5 GAL
Final Water Level: 9.76
Final Well Depth (ft): 10 FT

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: Clear
Ferrous Iron (ppm): —

Analysis: SeeCOC

Comments: 828120-MW-6B-09 @ 1045

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361206118

Monitoring Well: MW-9B
Field Personnel: MF
Date: 10/18/23
Weather: 50°F Overcast
Page: 1 of 1

Well Depth (ft btoc): 19.39
Well Diameter (in): 4
Well Condition: Good
Measured Well Depth (ft btoc): 19.39
Depth to Water (ft btoc): 7.79
Screened/Open Interval (ft btoc): —

PID Readings (ppm): Background: /
Beneath outer cap:
Beneath inner cap:
Depth of Pump (ft btoc): 17
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1145	X		14.67	/	6.90	/	.820	/	-47	/	00	/	75.9	/	7.73	/	200	—
1150	X		14.83	1.09	6.87	-.03	.821	.12	-54	7	0.0	0	71.2	6.19	7.73	0	200	—
1155	X		14.67	1.08	6.88	.01	.823	.24	-57	3	0.0	0	42	41.01	7.73	0	200	—
1200	X		14.73	.55	6.88	0	.822	.12	-58	1	0.0	0	42	0	7.74	.01	200	—
1205	X		14.78	.2	6.88	0	.822	0	-60	0	0.0	0	24.2	42.4	7.75	.01	200	—
1210	X		14.8	.14	6.88	0	.821	.12	-60	0	00	0	16.4	33.5	7.75	0	200	—
1215	X		14.81	.07	6.88	0	.820	.12	-61	1	0.0	0	9.24	43.7	7.76	.01	200	—
1220	X		14.78	.2	6.88	0	.821	.12	-67	6	0.0	0	8.41	8.98	7.77	.01	200	—
1225	X		14.77	.07	6.88	0	.821	0	-66	1	0.0	0	8.21	2.38	7.78	.01	200	—
1230		X	14.82	.34	6.89	.01	.822	.12	-70	4	0.0	0	7.81	4.87	7.78	0	200	/

Total Volume Purged: 3 GAL
Final Water Level: 7.80
Final Well Depth (ft): 19.39

SAMPLING DATA:

Sampling Method: Low Flow - Peri Pump
Sample Visual Appearance: Clear
Ferrous Iron (ppm): —

Analysis: See COC

Comments: 328120-MW-9B-017 @ 1230

wsp

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620618

Monitoring Well:	MW-9	Date:	10/18/23
Field Personnel:	MF	Weather:	30°F Overcast
Well Depth (ft btoc):	9.60	Measured Well Depth (ft btoc):	9.60
Well Diameter (in):	2	Depth to Water (ft btoc):	8.63
Well Condition:	Good	Screened/Open Interval (ft btoc):	—
PID Readings (ppm): Background:	—	Depth of Pump (ft btoc):	9
Beneath outer cap:	—	Purging Method:	Low Flow
Beneath inner cap:	—		

Page: 1 of 1

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1300	X		15.70	/	6.58	/	2.436	/	-34	/	.99	/	22.5	/	8.71	/	200	—
1305	X		15.77	.45	6.58	0	2.485	2.01	-21	13	1.31	32.3	63.1	180	8.74	.33	200	—
1310	X		15.61	.82	6.60	.02	2.478	2.78	-13	8	.57	57	37.2	41.05	8.71	.07	200	—
1315	X		15.05	3.77	6.60	0	2.416	2.5	23	30	.21	63.2	15.8	57.5	8.80	.03	200	—
1320	X		15.07	.13	6.59	.01	2.400	.07	31	8	.09	57	9.87	37.5	8.85	.05	200	—
1325	X		15.04	.2	6.59	0	2.384	.67	39	8	.00	100	6.78	31.3	8.89	.04	200	—
1330	X		15.00	.27	6.59	0	2.373	.38	46	7	0.0	0	7.21	6.34	8.93	.04	200	—
1335	X		15.01	.07	6.59	0	2.366	.38	52	6	0.0	0	6.53	9.43	8.98	.05	200	—
1340		X	15.05	.27	6.59	0	2.359	.3	60	8	0.0	0	5.95	8.88	9.03	.05	200	—

Total Volume Purged: 3 GAL Final Water Level: 9.21 Final Well Depth (ft) 9.60

SAMPLING DATA:

Sampling Method: Low Flow Peri Pump
Sample Visual Appearance: Clear
Ferrous Iron (ppm): —

Analysis: See COC

Comments: 828120-MW-9-09@1340

wsp

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620618

Monitoring Well: HA-114
Field Personnel: MF
Date: 10/19/23
Weather: 43°F overcast
Page: 1 of 1

Well Depth (ft btoc): 14.73
Well Diameter (in): 2
Well Condition: Good
Measured Well Depth (ft btoc): 14.73
Depth to Water (ft btoc): 8.78
Screened/Open Interval (ft btoc):

PID Readings (ppm): Background:
Beneath outer cap: 7
Beneath inner cap:
Depth of Pump (ft btoc): 13
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
0915	X		15.83		6.91		1.01		-93		0.0		16		9.45		200	—
0920	X		15.26	.57	6.85	.06	1.280	.26	-67	14	0.0	0	11.9	25	9.45	0	200	—
0925	X		15.23	4.33	6.83	.02	1.59	18.1	-100	7	0.0	0	11.8	.85	9.39	.06	200	—
0930	X		15.19	1.71	6.86	.03	1.362	10.3	-92	8	0.0	0	16.5	11.02	9.37	.02	200	—
0935	X		15.97	.13	6.85	.01	1.438	5.5	-86	6	0.0	0	9.38	11.6	9.38	.01	200	—
0940	X		15.53	.39	6.82	.03	1.735	20.7	-80	6	0.0	0	5.5	41	9.45	.07	200	—
0945	X		15.91	2.45	6.83	.01	1.782	2.71	-76	4	0.0	0	5.32	3.3	9.50	.05	200	—
0950	X		16.12	1.32	6.82	.01	1.831	2.75	-73	3	0.0	0	6.03	9.64	9.54	.04	200	—
0955		X	16.33	1.3	6.82	0	1.853	1.16	-67	6	0.0	0	5.5	8.79	9.61	.07	200	—

Total Volume Purged: 3 GAL
Final Water Level: 9.76
Final Well Depth (ft): 14.73

SAMPLING DATA:

Sampling Method: Low Flow peri pump
Sample Visual Appearance: clear
Ferrous Iron (ppm): —

Analysis: see COC

Comments:
828120-HA-114-013 @ 0955
828120-HA-114-013-MS @ 0955
828120-HA-114-013-MSD @ 0955
828120-Dup-1 @ no Time

wsp

LOW FLOW GROUNDWATER SAMPLING LOG

Project Name: Speedys Cleaners
Project Number: 361620618

Monitoring Well: MW-210
Field Personnel: MF
Date: 6/19/23
Weather: 80°F-Sunny
Page: 1 of 1

Well Depth (ft btoc): 17.61
Well Diameter (in): 2
Well Condition: Good
Measured Well Depth (ft btoc): 17.61
Depth to Water (ft btoc): 7.94
Screened/Open Interval (ft btoc):

PID Readings (ppm): Background: /
Beneath outer cap:
Beneath inner cap:
Depth of Pump (ft btoc): 15
Purging Method: Low Flow

WELL PURGING & SAMPLING (Low Flow):

Time 5 minute intervals	Purging	Sampling	Temperature (°C)		pH (units)		Conductivity (ms/cm)		REDOX (Eh-mV)		DO (mg/L)		Turbidity (NTU)		Depth to Water (ft)		Pumping Rate (ml/min)	Comment
			Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change		
			3%		0.1 unit		3%		10 mV		10%		10%		0.3 ft		200-500	
1105	X		15.63	/	6.98	/	.713	/	-29	/	022	/	14.9	/	8.10	/	200	—
1110	X		15.62	.06	6.85	.13	821	1515	-40	11	00	100	60.1	322	8.11	.01	200	—
1115	X		15.69	.13	6.84	.01	.879	1.06	-42	2	00	0	10.4	2.97	8.11	0	200	—
1120	X		15.57	.45	6.83	.01	.910	36	-44	2	6.0	0	9.83	5.48	8.11	0	200	—
1125	X		15.60	.19	6.83	0	.930	22	-44	0	0.0	0	9.38	4.58	8.11	0	200	—
1130	X		15.41	.58	6.83	0	.933	.32	-45	1	0.0	0	9.44	.32	8.11	0	200	—
1135		X	15.61		6.83		.935	2.36	-46	1	60	0	9.91	4.98	8.11	0	200	—

Total Volume Purged: 2.5 GAL
Final Water Level: 8.11
Final Well Depth (ft): 17.61

SAMPLING DATA:

Sampling Method: Low Flow Peri pump
Sample Visual Appearance: clear
Ferrous Iron (ppm):

Analysis: See COC

Comments:
828120-MW-210-015 @ 1135
828120-MW-210-015-MS @ 1135
828120-MW-210-015-MSD @ 1135
828120-DUP-2 @ no Time

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wsp

PROJECT: NYDEC #828120 | SAMPLE I D NUMBER: 828120HA114013
WELL ID: HA-114 | SAMPLING EVENT: Carriage Cleaners | DATE: 4/24/24
TIME: START 1640 END 1730 | JOB NUMBER: 361620.6118 | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER

INITIAL DEPTH TO WATER	7.96 FT	WELL DEPTH (TOR)	15 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	8.58 FT	SCREEN LENGTH	— FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0 16 (2-inch) or x 0 65 (4-inch))	0.01 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	— PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)	2 GAL GAL			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT
WELL DIAMETER	2 IN
DISCHARGE TIMER SETTING	—

WELL INTEGRITY

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

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1645	8.58	150	11.1	1.195	6.97	2.22	0.0	99	13		
1650	8.59	150	11.2	2.020	7.07	1.78	0.0	63	13		
1655	8.59	150	11.2	2.521	7.10	2.66	0.0	57	13		
1700	8.59	150	11.2	2.680	7.12	3.29	0.0	59	13		
1705	8.58	150	11.3	2.733	7.13	3.41	0.0	62	13		
1710	8.57	150	11.2	2.757	7.13	3.53	0.0	65	13		
1715	8.55	150	11.1	2.766	7.13	3.49	0.0	66	13		
1720	8.57	150	11.1	2.771	7.13	3.46	0.0	70	13		
1725	8.56	150	11.2	2.778	7.13	3.42	0.0	73	13		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [x] TEFLON OR TEFLON LINED
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER Peri Pump

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER —

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[x] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG C	2 X 1 L AG	[ ] Maine DRO
[x] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160 2	4 DEG C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351 2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other Full Set	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO) NUMBER OF GALLONS GENERATED: —

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: _____

LOCATION SKETCH

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

WSP

PROJECT: NYDEC #828120 | SAMPLE ID NUMBER: 828120MW210015
WELL ID: MW-210 | SAMPLING EVENT: Carriage Cleaners | DATE: 4/24/24
TIME START: 1330 END: 1430 | JOB NUMBER: 361620.6118 | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

INITIAL DEPTH TO WATER	6.09 FT	WELL DEPTH (TOR)	17.5 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	7.01 FT	SCREEN LENGTH	— FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	— PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	3 GAL GAL			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT		
WELL DIAMETER	2 IN		
WELL INTEGRITY	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED COLLAR	X	X	—
DISCHARGE TIMER SETTING			

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1340	6.83	150	10.7	1.109	7.00	1.52	89.5	74	15		
1345	6.85	150	10.8	1.118	6.90	0.50	52	61	15		
1350	6.85	200	10.7	1.132	6.99	0.22	39.7	43	15		
1355	6.87	200	10.8	1.135	7.00	0.21	19.3	34	15		
1400	6.90	200	10.9	1.141	6.98	0.13	0.0	12	15		
1405	6.91	200	10.8	1.145	6.99	0.13	0.0	9	15		
1410	6.92	200	10.6	1.145	6.99	0.12	0.0	8	15		
1415	6.94	200	10.7	1.145	6.98	0.11	0.0	12	15		
1420	6.96	200	10.8	1.146	6.98	0.10	0.0	16	15		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [ ] QED BLADDER [ ] SIMCO BLADDER [x] GEOPUMP
TYPE OF TUBING: [X] TEFLON OR TEFLON LINED [ ] HIGH DENSITY POLYETHYLENE [ ] OTHER
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER Peri Pump
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[✓] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other FULL SET	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
NUMBER OF GALLONS GENERATED:

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE

LOCATION SKETCH

C:\Windows\TEMP\Data Workflow Request 00000391-e796-6402-a2bf-a1c73f72bc34\GeoFlow-GWPurgeForm 16986696-66000

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wsp

PROJECT: NYDEC #828120 | SAMPLE I D NUMBER: 828120MW08B024 | DATE: 4/24/24
WELL ID: MW-8B | SAMPLING EVENT: Carriage Corners
TIME: START 1215 END 1310 | JOB NUMBER: 361620611.5 | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 8.35 FT
FINAL DEPTH TO WATER: 8.38 FT
DRAWDOWN VOLUME: GAL
(initial - final x 0 16 (2-inch) or x 0 65 (4-inch))
TOTAL VOL PURGED: 3 GAL GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)

MEASUREMENT POINT
[X] TOP OF WELL RISER
[X] TOP OF PROTECTIVE CASING
[ ] OTHER

WELL DEPTH (TOR): 30 FT
SCREEN LENGTH: — FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED:

PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PID AMBIENT AIR: NA PPM
PID WELL MOUTH: NA PPM
PRESSURE TO PUMP: NA PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: — FT
WELL DIAMETER: 4 IN

WELL INTEGRITY

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

DISCHARGE TIMER SETTING:

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1220	8.37	150	9.9	1.030	7.14	270	26	78	27		
1225	8.38	150	10.6	0.977	7.06	0.55	69.1	56	27		
1230	8.38	150	10.6	0.968	7.05	0.21	0.0	31	27		
1235	8.38	150	10.7	0.968	7.04	0.21	17.6	22	27		
1240	8.38	150	10.6	0.969	7.05	0.19	6.71	12	27		
1245	8.38	150	10.7	0.971	7.03	0.18	0.0	6	27		
1250	8.38	150	10.7	0.971	7.04	0.18	0.0	2	27		
1255	8.38	150	10.7	0.974	7.03	0.16	0.0	0	27		
1300	8.38	150	10.7	0.981	7.03	0.15	0.0	-3	27		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] QED BLADDER
[ ] SIMCO BLADDER
[x] GEOPUMP

TYPE OF TUBING
[x] TEFLON OR TEFLON LINED
[ ] HIGH DENSITY POLYETHYLENE
[ ] OTHER

TYPE OF PUMP MATERIAL
[ ] POLYVINYL CHLORIDE
[ ] STAINLESS STEEL
[ ] OTHER Peri Pump

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 X 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160,2	4 DEG C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351 2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other VOCs Only	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO)
NUMBER OF GALLONS GENERATED:

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

WSP

PROJECT: NYDEC #828120 Carriage Cleaners | SAMPLE I D NUMBER: 828120MW09008

WELL ID: MW-9 | SAMPLING EVENT: Carriage Cleaners | DATE: 4/24/24

TIME: START 1015 END 1100 | JOB NUMBER: 361620618 | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

INITIAL DEPTH TO WATER	6.84 FT	WELL DEPTH (TOR)	10 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	FT
FINAL DEPTH TO WATER	7.95 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME (initial - final x 0 16 (2-inch) or x 0 65 (4-inch))	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	NA PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)	2.5 GAL			PRESSURE TO PUMP	NA PSI
				REFILL TIMER SETTING	

PROTECTIVE CASING / WELL DIFFERENCE	FT		
WELL DIAMETER	2 IN		
WELL INTEGRITY	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR	X		
DISCHARGE TIMER SETTING			

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1020	6.84	150	10.6	2.455	6.96	1.30	0.0	21	8.5		
1025	7.15	150	10.6	2.501	6.95	0.32	[illegible]	-12	8.5		TURB 0.0NTU
1030	7.39	150	10.6	2.501	6.95	0.27	0.0	-28	8.5		
1035	7.46	150	10.3	2.456	6.93	0.22	0.0	-44	8.5		
1040	7.54	150	10.1	2.424	6.94	0.22	0.0	-49	8.5		
1045	7.66	150	10.1	2.405	6.94	0.20	0.0	-52	8.5		
1050	7.73	150	10.0	2.396	6.95	0.19	0.0	-55	8.5		
1055	7.86	150	10.0	2.381	6.96	0.19	0.0	-55	8.5		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] QED BLADDER	[X] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SIMCO BLADDER	[ ] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[X] GEOPUMP	[ ] OTHER	[ ] OTHER Peri Pump	

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160 2	4 DEG C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other Full set	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO) | NUMBER OF GALLONS GENERATED:

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT: Carriage Cleaners
WELL ID: MW-913
TIME: START 0905 END 1000
SAMPLE I D NUMBER: 828120MW01B017
SAMPLING EVENT: 361620611B
JOB NUMBER: Carriage Cleaners
DATE: 4/24/24
SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 5.74 FT
FINAL DEPTH TO WATER: 5.81 FT
DRAWDOWN VOLUME: GAL
(initial - final x 0 16 (2-inch) or x 0 65 (4-inch))
TOTAL VOL PURGED: 4 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)

MEASUREMENT POINT
[X] TOP OF WELL RISER
[ ] TOP OF PROTECTIVE CASING
[ ] OTHER

WELL DEPTH (TOR): 19.5 FT
SCREEN LENGTH: FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED:

PROTECTIVE CASING STICKUP (FROM GROUND): FT
PID AMBIENT AIR: NA PPM
PID WELL MOUTH: NA PPM
PRESSURE TO PUMP: NA PSI
REFILL TIMER SETTING:

PROTECTIVE CASING / WELL DIFFERENCE: FT
WELL DIAMETER: 4 IN

WELL INTEGRITY

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

DISCHARGE TIMER SETTING:

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
0915	5.78	200	12.1	1.103	6.78	1.25	38.8	103	17		
0920	5.78	200	11.9	1.118	6.82	0.59	0.42	65	17		
0925	5.79	200	11.9	1.117	6.88	0.42	0.42	45	17		
0930	5.79	200	11.9	1.117	6.88	0.32	0.0	28	17		
0935	5.79	200	11.8	1.116	6.90	0.24	0.0	16	17		
0940	5.80	200	11.9	1.116	6.91	0.23	0.0	10	17		
0945	5.80	200	11.9	1.118	6.91	0.22	0.0	9	17		
0950	5.80	200	11.9	1.118	6.91	0.21	0.0	6.6	17		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] QED BLADDER
[ ] SIMCO BLADDER
[x] GEOPUMP

TYPE OF TUBING
[ ] TEFLON OR TEFLON LINED
[ ] HIGH DENSITY POLYETHYLENE
[ ] OTHER

TYPE OF PUMP MATERIAL
[ ] POLYVINYL CHLORIDE
[ ] STAINLESS STEEL
[ ] OTHER Peri Pump

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160 2	4 DEG C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other VOC'S Only	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO)
NUMBER OF GALLONS GENERATED:

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/field blank required

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wsp

PROJECT	Carriage Cleaners	SAMPLE I D NUMBER	828120MW06009
WELL ID	MW-06	SAMPLING EVENT	CarriageCleaners
TIME START	1400 END 1505	JOB NUMBER	361620611 8
DATE	4/23/24	SAMPLERS	MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER

INITIAL DEPTH TO WATER	7.33 FT	WELL DEPTH (TOR)	10.10 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	FT
FINAL DEPTH TO WATER	7.97 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME (initial - final x 0 16 (2-inch) or x 0 65 (4-inch))	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	NA PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)	5 GAL GAL			PRESSURE TO PUMP	NA PSI
				REFILL TIMER SETTING	

PROTECTIVE CASING / WELL DIFFERENCE	FT
WELL DIAMETER	1 IN
DISCHARGE TIMER SETTING	

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

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1410	7.76	150	11.3	0.672	7.05	6.95	13.7	88	9		
1415	7.85	150	10.9	0.685	7.05	6.40	4.04	102	9		
1420	7.86	150	11.3	0.730	7.04	5.61	1.86	105	9		
1425	7.88	150	11.2	0.760	7.05	5.63	1.04	111	9		
1430	7.90	150	11.2	0.795	7.17	5.09	0.80	117	9		
1435	7.92	150	11.1	0.813	6.95	5.07	~~0.813~~	126	9		1.02 NTU
1440	7.93	150	11.3	0.826	6.88	4.74	1.25	132	9		
1445	7.93	150	11.3	0.834	6.87	4.85	0.48	138	9		
1450	7.94	150	11.3	0.842	6.88	4.75	0.46	142	9		
1455	7.94	150	11.4	0.848	6.89	4.82	0.62	145	9		
1500	7.95	150	11.3	0.852	6.90	4.77	0.86	149	9		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] QED BLADDER	[x] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SIMCO BLADDER	[ ] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER
[x] GEOPUMP	[ ] OTHER	[ ] OTHER Peri Pump	

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160 2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN VOCS ONLY	USEPA 351 2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES (NO) NUMBER OF GALLONS GENERATED

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

WSP

PROJECT: Carriage Cleaners | SAMPLE I D NUMBER: 828120MW06027
WELL ID: MW-6B | SAMPLING EVENT: Carriage Cleaners | DATE: 4/23/24
TIME: START 1310 END 1900 | JOB NUMBER: 361620611B | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER ____

INITIAL DEPTH TO WATER	7.55 FT	WELL DEPTH (TOR)	30 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	7.48 FT	SCREEN LENGTH	— FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME (initial - final x 0 16 {2-inch} or x 0 65 {4-inch})	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	NA PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0 00026 gal/milliliter)	3.5 GAL			PRESSURE TO PUMP	NA PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT		
WELL DIAMETER	4 IN		
WELL INTEGRITY	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED COLLAR	X	X	—
DISCHARGE TIMER SETTING			

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1315	7.20	150	13.6	0.829	6.80	0.53	44.3	111	27		
1320	7.29	150	13.3	0.828	6.80	0.19	48	89	27		
1325	7.38	150	13.5	0.824	6.81	0.21	41.4	78	27		
1330	7.41	150	13.8	0.829	6.78	0.20	39.5	66	27		
1335	7.42	150	13.2	0.828	6.78	0.18	39.9	56	27		
1340	7.42	150	12.9	0.828	6.76	0.18	36.7	55	27		
1345	7.43	150	12.8	6.824	6.75	0.17	36.0	49	27		
1350	7.43	150	12.6	0.824	6.69	0.16	33.2	45	27		
1355	7.45	150	12.5	0.824	6.68	0.16	31.8	43	27		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [ ] QED BLADDER [ ] SIMCO BLADDER [X] GEOPUMP
TYPE OF TUBING: [X] TEFLON OR TEFLON LINED [ ] HIGH DENSITY POLYETHYLENE [ ] OTHER ____
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER Peri Pump
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER —

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335 4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415 1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160 2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351 2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other VOC's only	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO) | NUMBER OF GALLONS GENERATED: ____

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: [signature]

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wsp

PROJECT: Carriage Cleaners | SAMPLE I D NUMBER: 828120MW111I02B

WELL ID: MW-111I | SAMPLING EVENT: Carriage Cleaners | DATE: 4/23/24

TIME: START 1110 END 1145 | JOB NUMBER: 361620618 | SAMPLERS: MF

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	9.43 FT	WELL DEPTH (TOR)	30.20 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	10.00 FT	SCREEN LENGTH	— FT	PROTECTIVE CASING / WELL DIFFERENCE	— FT
DRAWDOWN VOLUME (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID AMBIENT AIR	NA PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	3 GAL GAL			PID WELL MOUTH	NA PPM
				PRESSURE TO PUMP	NA PSI
				REFILL TIMER SETTING	—
				DISCHARGE TIMER SETTING	
				WELL DIAMETER	2 IN

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

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1110	9.89	150	14.0	0.901	6.17	0.98	0.98	247	28		
1115	~~9.43~~	150	14.0	0.904	6.20	0.80	5.72	245	28		DTW 9.89
1120	9.92	150	13.8	0.898	6.23	0.70	1.12	241	28		
1125	9.97	150	13.9	0.895	6.22	0.58	2.65	238	28		
1130	9.98	150	13.8	0.902	6.25	0.55	2.41	234	28		
1135	9.98	150	13.8	0.907	6.30	0.55	2.70	230	28		
1140	10.00	150	13.8	0.908	6.35	0.51	0.97	227	28		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] QED BLADDER	[x] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SIMCO BLADDER	[ ] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[ ] OTHER _____
[x] GEOPUMP	[ ] OTHER _____	[ ] OTHER Peri Pump	

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other Full Set	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO) | NUMBER OF GALLONS GENERATED: _____

LOCATION SKETCH

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/field blank required

SIGNATURE _____

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wsp

PROJECT: Carriage Cleaners | SAMPLE ID NUMBER: 828120EW0610 | DATE: 4/23/24
WELL ID: EW-1 | SAMPLING EVENT: Carriage Cleaners | SAMPLERS: MF
TIME: START 0930 END 1015 | JOB NUMBER: 3616206118

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [ ] TOP OF WELL RISER [X] TOP OF PROTECTIVE CASING [ ] OTHER

INITIAL DEPTH TO WATER	8.67 FT	WELL DEPTH (TOR)	12.5 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	FT
FINAL DEPTH TO WATER	8.82 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME (initial - final x 0.16 (2-inch) or x 0.65 (4-inch))	GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PID WELL MOUTH	NA PPM
TOTAL VOL PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	3 GAL GAL			PRESSURE TO PUMP	NA PSI
				REFILL TIMER SETTING	

PROTECTIVE CASING / WELL DIFFERENCE: FT
WELL DIAMETER: 4 IN
DISCHARGE TIMER SETTING:

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

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP (deg c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
0935	8.72	150	11.8	.860	6.95	0.70	1.92	239	10		
0940	8.75	150	11.6	.859	6.92	0.43	1.58	230	10		
0945	8.75	150	11.8	.857	6.90	0.40	5.11	227	10		
0950	8.76	150	11.7	.856	6.98	0.37	9.59	226	10		
0955	8.76	150	11.7	.856	6.95	0.35	5.02	226	10		
1000	8.77	150	11.7	.855	6.87	0.33	4.96	227	10		
1005	8.79	150	11.7	.853	6.93	0.31	4.11	225	10		
1010	8.80	150	11.6	.854	6.91	0.29	3.19	225	10		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [ ] QED BLADDER [ ] SIMCO BLADDER [X] GEOPUMP
TYPE OF TUBING: [X] TEFLON OR TEFLON LINED [ ] HIGH DENSITY POLYETHYLENE [ ] OTHER
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [ ] OTHER Peri Pump
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[ ] Other Full Set	6010			[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES (NO) NUMBER OF GALLONS GENERATED

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE:

LOCATION SKETCH

C:\Windows TEMP\Data Workflow Request 00000391-d796-4a02-a2bf-a3137d726a34\LowFlowGWPurgeForm 16986963466000

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: HA-114	DATE: 10/31/24
PROJECT NUMBER:		START TIME:	END TIME:
SAMPLE ID: 828120 HA114012	SAMPLE TIME:	SITE NAME/INSTALLATION: NYDEC# 828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	8.70 FT	FINAL DTW (BMP)	9.17 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	14.72 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter^2 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
820	BEGIN PURGING									
0825	9.03	125	16.5	1.65	1.10	7.23	-385	0.0	12	
0830	9.11	125	16.7	1.40	0.44	7.08	-424	0.0	12	
0835	9.13	125	16.7	1.78	0.44	7.03	-427	0.0	12	
0840	9.13	125	16.7	1.90	0.48	7.01	-435	0.0	12	
0845	9.13	125	16.8	2.02	0.58	7.00	-395	0.0	12	
0850	9.15	125	16.8	2.06	0.60	7.04	-393	0.0	12	
0855	9.15	125	16.8	2.09	0.64	7.03	-400	0.0	12	
0900	9.16	125	16.8	2.12	0.74	7.04	-408	0.0	12	
0905	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP. nearest degree (ex. 10.1 = 10)
COND. 3 significant figure max (ex. 1.686 = 1.69)
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
- X BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER Dedicated Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Heron
- ☐ PID
- ☒ WQ METER YSI
- ☒ TURB. METER Lamotte
- ☒ PUMP Peri
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260	—	No	HCL	40mL x3	No
MNA	various	—	Yes	various	—	No

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☐ YES ☐ NO

NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED: 3 GAL

NOTES: 828120 HA114012 @ 0905

Sampler Signature: [signature] Print Name: Mark Fecora

Checked By: Date: 10/31/24

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Calcase Cleaners	LOCATION ID: MW-210
PROJECT NUMBER: 828120MW210015	DATE: 10/3/24
SAMPLE ID:	SAMPLE TIME:
START TIME:	END TIME:
SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.62 FT	FINAL DTW (BMP)	7.96 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	17.68 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter^2 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0955	BEGIN PURGING									
1000	7.89	150	15.9	0.88	1.10	7.16	-487	11.0	15	
1005	7.91	150	15.9	0.92	0.08	7.05	-511	9.78	15	
1010	7.93	150	16.0	0.93	0.05	7.05	-499	11.62	15	
1015	7.94	150	16.0	0.93	0.03	7.06	-502	10.02	15	
1020	7.94	150	16.0	0.94	0.0	7.05	-507	8.75	15	
1025	7.95	150	16.0	0.94	0.0	7.05	-499	8.16	15	
1030	7.94	150	16.0	0.95	0.0	7.05	-493	8.09	15	
1035	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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
- X BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER Designated Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER heron
- ☒ PID —
- ☒ WQ METER YSI
- ☒ TURB. METER Lamotte
- ☒ PUMP Peri
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOC's	8260	—	NO	HCl	40mL x3	NO
☐	MNA	Various	—	YES	various	—	NO
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☐ YES ☐ NO
NUMBER OF GALLONS GENERATED: ___
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NOTES: 828120MW210015 @ 1035

Sampler Signature: [signature] Print Name: Mark Fellows

Checked By: Date: 10/3/24

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.
[redacted]
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME		LOCATION ID	DATE
Carriage Cleaners		EW-1	10/29/24
PROJECT NUMBER		START TIME	END TIME
361620618.04.DEF			
SAMPLE ID	SAMPLE TIME	SITE NAME/INSTALLATION	PAGE
828120 EW0102S			OF

WELL DIAMETER (IN.): ☐ 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)	10.00 FT	FINAL DTW (BMP)	10.10 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	27.90 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter^2 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0 1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1145	BEGIN PURGING									
1150	10.05	150	14.5	0.84	3.30	7.61	-189	2.71	25	
1155	10.07	150	14.7	0.83	2.57	7.54	-192	0.45	25	
1200	10.08	150	14.7	0.83	2.54	7.53	-193	0.20	25	
1205	10.10	150	14.7	0.83	2.53	7.51	-191	0.96	25	
1210	10.10	150	14.7	0.83	2.51	7.52	-191	0.64	25	
1215	10.09	150	14.7	0.83	2.55	7.57	-190	0.88	25	
1220	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex 10 1 = 10)
COND 3 significant figure max (ex 1 686 = 1 69)
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
X BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER Deslaminated Tubing

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER Heron
☐ PID
☒ WQ METER YSI
☒ TURB METER Lamotte
☒ PUMP Peri
☐ OTHER
☐ FILTERS NO ☒ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC's	8260	—	NO	HCL	40mL x3	NO
MNA	Various	—	Yes	Various	—	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☐
NO-PURGE METHOD UTILIZED YES ☐ NO ☐
NUMBER OF GALLONS GENERATED

NOTES
828120 EW0102S @ 1220

Sampler Signature
Print Name Mark Fitzgerald
Checked By
Date 10/29/24

DEVIATIONS FROM THE WORK PLAN

REV 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-9B	DATE: 10/30/24
PROJECT NUMBER:		START TIME:	END TIME:
SAMPLE ID: 828120MW09B017	SAMPLE TIME:	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.51 FT	FINAL DTW (BMP)	7.55 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	19.92 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter² 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0 5 mg/L	pH (units) ±0 1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1215	BEGIN PURGING									
1220	7.54	150	15.9	0.91	5.07	7.30	-295	0.0	17	
1225	7.55	150	15.9	0.77	4.85	8.22	-457	1.17	17	
1230	7.55	150	15.9	0.74	4.04	8.22	-495	0.0	17	
1235	7.55	150	15.9	0.73	3.57	8.17	-431	1.66	17	
1240	7.55	150	15.8	0.73	3.30	8.22	-433	1.10	17	
1245	7.55	150	15.8	0.73	3.15	8.26	-430	0.23	17	
1250	7.55	150	15.7	0.73	3.02	8.29	-423	0.0	17	
1255	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex 10 1 = 10)
COND 3 significant figure max (ex 1 686 = 1 69)
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
- X BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER Designated Tubing

TUBING PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Interface
- ☐ PID
- ☒ WQ METER YSI
- ☒ TURB METER Lamotte
- ☒ PUMP Peristaltic
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260	—	NO	HCL	40mL X3	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☐ YES ☐ NO
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO
NUMBER OF GALLONS GENERATED: 3 GAL

NOTES
828120 MW09B017 @ 1255

Sampler Signature: [signature] Print Name: Mark Fecora
Checked By: Date: 10/30/24

DEVIATIONS FROM THE WORK PLAN

REV 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.
[redacted]
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners	LOCATION ID: MW-9
PROJECT NUMBER:	DATE: 10/30/24
SAMPLE ID: 828120MW09009	START TIME: 1115
SAMPLE TIME:	END TIME:
SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER
TUBING ID (INCHES): ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER
MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

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

INITIAL DTW (BMP)	8.06 FT	FINAL DTW (BMP)	9.47 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	9.61 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter^2 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0 5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1115	BEGIN PURGING									
1120	8.20	100	16.1	2.80	7.63	6.85	-341	28.8	9	
1125	8.69	75	15.9	2.88	0.38	6.89	-333	8.25	9	
1130	8.79	75	16.0	2.88	0.28	6.90	-341	5.65	9	
1135	9.04	75	16.1	2.84	0.17	6.92	-338	6.75	9.5	
1140	9.18	75	16.3	2.82	0.12	6.95	-342	3.98	9.5	
1145	9.36	75	16.3	2.54	0.12	6.97	-350	4.96	9.5	
1150	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex 10 1 = 10)
COND 3 significant figure max (ex 1 686 = 1 69)
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
- X BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- OTHER Designated Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Heron
- ☒ PID
- ☒ WQ METER YSI
- ☒ TURB METER Lamotte
- ☒ PUMP PDI
- ☐ OTHER
- ☐ FILTERS NO TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC's	8260	—	NO	HCL	40 mL X 3	NO
MNA	Various	—	YES	Various	—	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☑ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
NUMBER OF GALLONS GENERATED:

NOTES
828120MW09009 @ 1150

Sampler Signature:
Print Name: Mark Fecons
Checked By:
Date: 10/30/24

DEVIATIONS FROM THE WORK PLAN

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners	LOCATION ID: MW-6B
PROJECT NUMBER: 361620611 8	DATE: 3/12/25
SAMPLE ID: 828120MW06B027	SAMPLE TIME: 0945
	START TIME: 0900
	END TIME: 0950
	SITE NAME/INSTALLATION: NYDEC #828120
	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.32 FT	FINAL DTW (BMP)	7.49 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.01 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	21.69 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam squared X 0.041)	0.11 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	14.22 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.34 GAL.	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
905	BEGIN PURGING									
910	7.49	200	10.8	1.026	0.32	6.77	58	10.5	27	
915	7.49	200	11.1	0.940	0.24	6.84	-24	23	27	
920	7.49	200	11.2	0.926	0.21	6.91	-42	25	27	
925	7.48	200	11.0	0.920	0.18	6.95	-49	11	27	
930	7.48	200	11.1	0.911	0.16	6.98	-52	10.7	27	
935	7.48	200	10.9	0.912	0.14	6.97	-51	9.68	27	
940	7.47	200	10.9	0.909	0.15	6.98	-50	9.36	27	
945	7.48	200	11.1	0.906	0.15	6.98	-49	7.16	27	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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
☐ WATERRA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☒ OTHER Deionized Tubing

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER Heron
☐ PID
☒ WQ METER YSI
☒ TURB METER Lamotte
☒ PUMP Peri
☐ OTHER
☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
	VOCs	8260	—	NO	HCL	5 X 3 ML	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

NON-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED: 4 GAL

NOTES: 828120 MW06B027@ 0945

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: Date:

REV. 3/29/2019

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-6	DATE: 3/12/25
PROJECT NUMBER: 3616206118		START TIME:	END TIME:
SAMPLE ID: 828120MW06009	SAMPLE TIME:	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER
TUBING ID (INCHES): [X] 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 X / LOCKED X / COLLAR X

INITIAL DTW (BMP)	7.48 FT	FINAL DTW (BMP)	7.77 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	10.01 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	2.53 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam squared X 0.041)	0.0 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	0.10 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.75 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1010	BEGIN PURGING									
1015	7.66	150	8.3	0.866	9.01	7.34	148	3.24	9	
1020	7.82	150	8.5	0.890	7.75	7.22	156	2.08	9	
1025	7.85	150	8.5	0.912	7.10	7.21	160	1.06	9	
1030	7.87	150	8.5	0.944	~~6.57~~ 7.17	7.17	166	1.25	9	
1035	7.82	150	8.5	0.979	6.14	7.10	170	2.06	9	
1040	7.79	150	8.4	0.982	5.71	7.15	170	1.10	9	
1045	7.75	150	8.3	0.992	5.73	7.13	170	0.89	9	
1050	7.79	150	8.5	0.986	5.81	7.16	175	0.99	9	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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 max (-44.1 = -44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] BLADDER [ ] WATERA [ ] OTHER [ ] OTHER

DECON FLUIDS USED: [X] ALCONOX [ ] DEIONIZED WATER [ ] POTABLE WATER [ ] NITRIC ACID [ ] HEXANE [ ] METHANOL [X] OTHER Dispensed Tubing

TUBING/PUMP/BLADDER MATERIALS: [X] SILICON TUBING [X] HDPE TUBING [ ] LDPE TUBING [ ] OTHER [X] OTHER ~~Dispensed~~ [ ] S. STEEL PUMP MATERIAL [ ] PVC PUMP MATERIAL [ ] GEOPROBE SCREEN [ ] OTHER [ ] OTHER [ ] OTHER

EQUIPMENT USED: [X] WL METER Heron [ ] PID [X] WQ METER YSI [X] TURB METER Lamotte [X] PUMP Peri [ ] OTHER [ ] FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260	-	No	HCL	3 X 40mL	Yes

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [X] NO [ ]
PURGE METHOD UTILIZED: YES [ ] NO [ ]
NUMBER OF GALLONS GENERATED: 13

NOTES: 828120 MW06009 @ 1050
828120 MW06009-MS @ 1055
828120 MW06009-MSD @ 1100

Sampler Signature: [signature] Print Name: Mark Flory

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN: 828120 DUP @ no time

REV. 3/29/2019

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Clemens		LOCATION ID: MW-9B	DATE: 3/12/25
PROJECT NUMBER: 361206118		START TIME: 1145	END TIME: 1230
SAMPLE ID: 828120MW09B017	SAMPLE TIME: 1225	SITE NAME/INSTALLATION: NYDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	5.62 FT	FINAL DTW (BMP)	5.65 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	19.44 FT	SCREEN INTERVAL	[redacted] FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	13.82 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam squared X 0.041)	0.02 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X (well diameter)2 X 0.041)	9.06 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.08 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1150	BEGIN PURGING									
1155	5.64	200	11.3	1.104	0.35	6.94	-68	27.4		
1200	5.65	200	11.5	1.148	0.24	6.97	-36	10.7		
1205	5.65	200	11.6	1.149	0.28	6.91	-39	10.6		
1210	5.65	200	11.6	1.149	0.39	6.93	-41	6.39		
1215	5.65	200	11.7	1.144	0.18	6.94	-42	4.92		
1220	5.65	200	11.7	1.151	0.10	6.92	-44	4.93		
1225	5.65	200	11.7	1.149	0.09	6.92	-46	4.16		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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 ☐ WATERRA ☐ OTHER ☐ OTHER

DECON FLUIDS USED: ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Designated Tubing

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER Hydrolab ☐ PID ☒ WQ METER YSI ☒ TURB METER Hanna ☒ PUMP Proi ☐ OTHER ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260	—	NO	HCL	3X 40mL	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

PURGE METHOD UTILIZED: ☐ YES ☐ NO

NUMBER OF GALLONS GENERATED: 3GAL

NOTES: 828120mw09B017@1225

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: [signature] Print Name: Mark Fiorino

Checked By: Date: 3/12/25

REV. 3/29/201

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners	LOCATION ID: MW-9 / DATE: 3/13
PROJECT NUMBER: 3616206118	START TIME: 0910 / END TIME: 1010
SAMPLE ID: B28120 MW 09 008 / SAMPLE TIME: 1000	SITE NAME/INSTALLATION: NYDEC#828120 / PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	6.49 FT	FINAL DTW (BMP)	7.65 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	9.60 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	3.11 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam squared X 0.041)	0.19 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	0.51 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	7.6 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0915	BEGIN PURGING									
0920	6.84	200	9.0	2.355	0.61	6.95	166	3.56	8	
0925	6.92	200	8.8	2.387	6.63	6.94	117	2.10	8	
0930	7.09	200	8.9	2.351	0.50	6.95	8.5	1.48	8	
0935	7.16	200	8.8	2.313	0.46	6.95	-22	1.44	8	
0940	7.22	200	8.9	2.251	0.37	6.94	-47	1.21	8	
0945	7.26	200	9.0	2.241	0.41	6.95	-54	0.89	8	
0950	7.32	200	9.0	2.218	0.37	6.95	-63	1.17	8	
0955	7.35	200	9.0	2.200	0.35	6.98	-65	0.61	8	
1000	7.41	200	9.2	2.185	0.34	6.97	-65	0.77	8	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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 ☐ VACUUM ☐ OTHER ☐ OTHER

DECON FLUIDS USED: ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Dedicated tubing

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER Heron ☒ PID ☒ WQ METER YSI Pro Plus ☒ TURB METER ☒ PUMP Peri ☐ OTHER ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
MNA	Various	—	YES	Various	Various	NO
VOCs	8260	—	NO	HCL	3x 50mL	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐

NUMBER OF GALLONS GENERATED: 3 GAL

IN-SITU PURGE METHOD UTILIZED: YES ☐ NO ☐

NOTES: B28120mw09008 @ 1000

Sampler Signature: [signature] Print Name: MARK FERONY

Checked By: Date: 3/13/25

DEVIATIONS FROM THE WORK PLAN

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: HA-114	DATE: 3/13
PROJECT NUMBER: 361620618		START TIME: 1035	END TIME: 1135
SAMPLE ID: 828120 ~~HA~~ 114 03	SAMPLE TIME: 1130	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	7.61 FT	FINAL DTW (BMP)	7.92 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	14.70 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	7.19 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.12 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	1.18 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.1 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1040	BEGIN PURGING									
1045	7.81	150	9.0	1.238	0.92	7.14	327	18.3	13	
1050	7.88	150	9.4	~~2~~.405	~~2~~.75	7.01	45	8.76	13	
1055	7.89	150	9.4	2.788	3.47	7.05	46	4.97	13	
1100	7.90	150	9.4	3.032	3.79	7.06	50	5.40	13	
1105	7.90	150	9.4	3.161	4.05	7.07	52	4.16	13	
1110	7.91	150	9.5	3.207	4.13	7.06	54	4.38	13	
1115	7.91	150	9.5	3.232	4.21	7.07	55	3.28	13	
1120	7.92	150	9.5	3.284	4.32	7.07	58	3.37	13	
1125	7.92	150	9.5	3.282	4.32	7.06	59	3.25	13	
1130	7.92	150	9.5	3.296	4.37	7.07	60	3.33	13	
FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)										

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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
- ☒ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☒ OTHER Dedicated Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Heron
- ☐ PID
- ☒ WQ METER YSI
- ☒ TURB METER Lamotte
- ☒ PUMP Dori
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
MNA	Various	—	YES	Various	Various	NO
VOC's	8260	—	NO	HCL	3X 50mL	NO

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
PURGE METHOD MODIFIED	☐	☐

NUMBER OF GALLONS GENERATED: 3 GAL

NOTES: 828120 HA114 03 @ 1130

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: Date: 3/13/25

REV. 3/29/2019

EARTH ENVIRONMENT
Engineering and Geology P.C.

[redacted]
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME	LOCATION ID	DATE
Carriage Cleaners	MW-210	3/13/25
PROJECT NUMBER	**START TIME**	**END TIME**
361620618	1220	1315
SAMPLE ID / **SAMPLE TIME**	**SITE NAME/INSTALLATION**	**PAGE**
828120 MW210015 / 1310	NYDEC #828120	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	6.35 FT	FINAL DTW (BMP)	6.72 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	17.69 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	11.3 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.57 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL. (water column X well diameter2 X 0.041)	1.85 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.95 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±17% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1225	BEGIN PURGING									
1230	6.58	150	11.1	1.191	0.42	7.14	4.1	73.6	15	
1235	6.64	150	11.3	1.166	0.25	6.99	-23	53.1	15	
1240	6.63	150	11.4	1.167	0.40	6.97	-26	29.9	15	
1245	6.65	150	11.4	1.162	0.24	6.98	-27	25.4	15	
1250	6.67	150	11.5	1.161	0.21	6.99	-29	20.1	15	
1255	6.67	150	11.6	1.158	0.21	6.97	-31	17.5	15	
1300	6.68	150	11.5	1.155	0.21	6.99	-30	14.4	15	
1305	6.68	150	11.5	1.154	0.21	6.96	-31	14.7	15	
1310	6.70	150	12.6	1.152	0.21	6.98	-32	13.9	15	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP. nearest degree (ex. 10.1 = 10)
COND. 3 significant figure max (ex. 1.686 = 1.69)
pH nearest tenth (ex. 5.53 = 5.5)
DO nearest tenth (ex. 3.51 = 3.5)
TURB 3 SF max, nearest tenth (5.19 = 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 / SED: ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER designated tubing

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER
☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER Heron ☐ PID ☒ WQ METER YSI ☒ TURB METER Lamotte ☒ PUMP peri ☐ OTHER ☐ FILTERS NO TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260		NO	HCl	3X40ML	NO
MNA	various		YES	various	various	NO

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 3

NOTES: 828120 MW210015 @ 1310

Sampler Signature: [signature] Print Name: Mark Fellows
Collected By: Date: 3/13/25

DEVIATIONS FROM THE WORK PLAN: —

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners	LOCATION ID: MW-111I
PROJECT NUMBER: 361620 6118	DATE: 3/11/25
SAMPLE ID: 828120 MW 111I 028	SAMPLE TIME: 935
	START TIME: 0850
	END TIME: 0950
SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	9.16 FT	FINAL DTW (BMP)	9.82 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.18 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	20.02 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	1.08 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	3.28 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.4 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
~~850~~	BEGIN PURGING									
900	9.69	150	11.0	0.87	0.50	9.21	-92.6	4.38	28	
905	9.74	150	11.1	0.88	0.11	16.30	-137.6	2.92	28	
910	9.78	150	11.1	0.90	0.0	16.35	-147	2.37	28	
915	9.78	150	11.2	0.93	0.0	10.75	-159	2.78	28	
920	9.75	150	11.3	0.95	0.0	10.56	-161	2.33	28	
925	9.77	150	11.4	0.96	0.0	10.23	-154	1.76	28	
930	9.80	150	11.4	0.98	0.0	10.69	-158	0.95	28	
935	9.81	150	11.4	0.98	0.0	10.96	-162	~~0.~~ 1.72	28	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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
- ☒ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☒ OTHER Dedicated Tubing

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER ~~YSI~~ Heron
- ☐ PID
- ☒ WQ METER YSI
- ☒ TURB METER Hanatte
- ☒ PUMP Peri
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
	MNA	Various	—	Yes	Various	Various	NO
	VOCs	8260		NO	HCl	3 X 40mL	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐

NUMBER OF GALLONS GENERATED: 3 GAL

POST-PURGE METHOD UTILIZED: YES ☐ NO ☐

NOTES: 828120 MW 111I 028 @ 935

Sampler Signature: Mark Felong

Print Name: Mark Felong

Checked By

Date: 3/11/25

DEVIATIONS FROM THE WORK PLAN: YSI cable got wet causing some parameters to show more than normal or be unrepresentative

REV. 3/29/2019

EARTH ENVIRONMENT
Engineering and Geology P.C.
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners	LOCATION ID: EW-1
PROJECT NUMBER: 361620618	DATE: 3/11/25
SAMPLE ID: 828120 EW01010	START TIME: 1010
SAMPLE TIME: 1130	END TIME: 1145
SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	8.51 FT	FINAL DTW (BMP)	8.59 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	27.91 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	19.4 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	0.05 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	2.72 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.000026 gal/mL)	3.12 GAL	DRAWDOWN TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1015	BEGIN PURGING									
1020	8.55	200	10.4	0.86	1.53	—	—	—	15	Recalibrated PH
1045	8.55	200	10.2	0.88	1.45	8.66	-68	1.83	15	
1050	8.57	200	10.5	0.87	0.02	10.15	-149	0.23	15	
1055	8.57	200	10.7	0.86	0.0	10.27	-173	0.90	15	
1100	8.58	200	10.7	0.86	0.0	8.24	-129	0.36	15	
1105	8.58	200	10.7	0.86	0.0	7.54	-110	0.44	15	
1110	8.59	200	10.8	0.86	0.0	7.30	-101	0.79	15	
1115	8.59	200	10.8	0.86	0.0	7.09	-99	1.29	15	
1120	8.60	200	10.7	0.86	0.0	7.01	-92	1.71	15	
1125	8.60	200	10.9	0.86	0.0	7.06	-87	0.42	15	
1130	8.59	200	10.8	0.86	0.0	7.12	-94	0.09	15	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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)

SAMPLE DOCUMENTATION

SAMPLE TYPE: ☒ GRAB ☐ COMPOSITE ☐ BLANK ☐ WATER ☐ OTHER ☐ OTHER

DECON FLUIDS USED: ☒ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☒ OTHER Designated Tubing

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☒ TEFLON TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER
☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER Heron ☐ PID ☒ WQ METER YSI ☒ TURB METER LaMotte ☒ PUMP Peri ☐ OTHER ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
	MNA	Various	—	YES	Various	Various	NO
	VOC's	8260	—	NO	HCL	3X 50mL	NO

PURGE OBSERVATIONS
PURGE WATER CONTAINERIZED: ☒ YES ☐ NO
SPECIFIC PURGE METHOD USED: ☐ YES ☐ NO
NUMBER OF GALLONS GENERATED: 4 GAL

NOTES: 828120 EW01010 @ 1130

Sampler Signature: [signature] Print Name: Mark Felosi
Reviewed By: Date: 3/11/25

DEVIATIONS FROM THE WORK PLAN: YSI cable got wet causing some parameters to stay more than normal or unrepresentative

REV. 3/29/2[illegible]

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-8B	DATE: 3/11/25
PROJECT NUMBER: 3616206118		START TIME: 1200	END TIME: 1250
SAMPLE ID: 828120 MW08B026	SAMPLE TIME: 1245	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	8.06 FT	FINAL DTW (BMP)	8.11 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	29.19 FT	SCREEN INTERVAL	— FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	— SEC
WATER COLUMN	21.13 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.03 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	— SEC
CALCULATED GAL/VOL (water column X well diameter2 X 0.041)	13.8 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/ml)	2.34 GAL	DRAWDOWN/ TOTAL PURGED	—	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (oC) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1205	BEGIN PURGING									
1210	8.06	200	11.1	0.86	1.25	8.23	-127	8.44	26	
1215	8.07	200	11.1	0.86	0.04	7.55	-114	7.50	26	
1220	8.07	200	10.9	0.86	0.0	7.14	-109	10.0	26	
1225	8.07	200	10.8	0.86	0.0	7.02	-132	18.0	26	
1230	8.07	200	10.7	0.86	0.0	7.16	-178	9.62	26	
1235	8.07	200	10.7	0.86	0.0	7.19	-176	7.23	26	
1240	8.08	200	10.6	0.86	0.0	7.12	-171	1.24	26	
1245	8.08	200	10.6	0.86	0.0	7.09	-167	0.24	26	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
pH nearest tenth (ex. 5.53 = 5.5)
DO nearest tenth (ex. 3.51 = 3.5)
TURB 3 SI. max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP 2 SF (44.1 = 45, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATERRA
☐ OTHER
☐ N/A

DECONTLUIDS USED
☒ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☒ OTHER Deionized Tubing

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER Itron
☐ PID
☒ WQ METER YSI
☒ TURB METER Lamotte
☒ PUMP Peri
☐ OTHER
☒ FILTERS NO TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC's	8260	—	NO	HCL	3X40ML	NO

PURGE OBSERVATIONS

	YES	NO
WATER STABILIZED	X	
PURGE METHOD UTILIZED		

NUMBER OF GALLONS GENERATED: 3

NOTES: 828120 MW08B026@1245

Sampler Signature: Mark Fellows Print Name

Checked By: Date 3/11/25

DEVIATIONS FROM THE WORK PLAN: YSI cable got wet causing some Parameters to be ~~"Jumpy"~~ Sway more than Usual or Unrepresentative

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.

Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-111I	DATE: 10/30/24
PROJECT NUMBER:		START TIME: 0810	END TIME:
SAMPLE ID: 828120 MW111I027	SAMPLE TIME:	SITE NAME/INSTALLATION: NYDEC #828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

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

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

WELL INTEGRITY

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

INITIAL DTW (BMP)	10.59 FT	FINAL DTW (BMP)	11.21 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	29.19 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter² 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0 5 mg/L	pH (units) ±0 1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0810	BEGIN PURGING									
0815	11.10	150	14.7	0.89	3.88	7.14	-325	2.23	27	
0820	11.13	150	14.9	0.90	4.41	7.07	-362	2.78	27	
0825	11.14	150	15.0	0.90	4.30	7.01	-360	2.71	27	
0830	11.15	150	15.0	0.90	3.82	7.10	-352	2.22	27	
0835	11.17	150	15.0	0.88	3.65	7.09	-351	1.62	27	
0840	11.18	150	15.1	0.88	3.49	7.10	-353	0.95	27	
0845	11.20	150	15.1	0.89	3.41	7.05	-358	1.25	27	
0850	sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex 10 1 = 10)
COND 3 significant figure max (ex 1 686 = 1 69)
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
- X BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER Designated Tubing

TUBING/PUMP BLADDER MATERIALS
- ☒ SILICON TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Heron
- ☐ PID
- ☐ WQ METER
- ☒ TURB METER YSI
- ☒ PUMP Lamotte Peri
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
	VOC's	8260		NO	HCL	40 mL X 3	2D
	MNA	various		Yes	various	—	2D

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☑ NO ☐

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐

NUMBER OF GALLONS GENERATED: 3 GAL

NOTES: 828120 MW111I027@0850

Sampler Signature: [signature] Print Name: Mark Fecora

Checked By: Date: 10/30/24

DEVIATIONS FROM THE WORK PLAN

REV 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.
[redacted]
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME		LOCATION ID	DATE
Carriage Cleaners		MW-6B	10/29/24
PROJECT NUMBER		START TIME	END TIME
		1025	1120
SAMPLE ID	SAMPLE TIME	SITE NAME/INSTALLATION	PAGE
~~828120~~ 828120MW06B027	1120	828120	1 OF 1

WELL DIAMETER (IN.): ☐ 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)	8.99 FT	FINAL DTW (BMP)	9.05 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	29.15 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter² 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1025	BEGIN PURGING									
1030	9.02	150	13.2	1.30	0.35	7.46	-228	48.9	27	
1035	9.02	150	13.1	1.28	0.24	7.43	-230	33.7	27	
1040	9.04	150	13.2	1.28	0.23	7.46	-231	15.4	27	
1045	9.04	150	13.2	1.26	0.16	7.44	-231	30.6	27	
1050	9.05	150	13.2	1.34	0.14	7.50	-234	29.5	27	
1055	9.06	150	13.3	1.27	0.13	7.55	-235	11.1	27	
1100	9.07	150	13.3	1.25	0.13	7.56	-236	10.1	27	
1105	9.08	150	13.3	1.24	0.13	7.54	-237	7.87	27	
1110	9.08	150	13.3	1.24	0.12	7.57	-238	6.27	27	
1115	9.08	150	13.3	1.24	0.13	7.55	-239	5.96	27	
1120	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER Designated tubing

TUBING/PUMP BLADDER MATERIALS
☒ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ W.L METER Heron
☐ PID
☒ WQ METER YSI
☒ TURB METER Lamotte
☒ PUMP peri
☐ OTHER
☐ FILTERS NO X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260		NO	HCL	40ML X 3	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO
NUMBER OF GALLONS GENERATED: 3

NOTES: 828120MW06B027 @ 1120

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: [signature] Print Name: Mark Felong
Checked By: Date: 10/29/24

REV 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-6	DATE: 10/29/24
PROJECT NUMBER:		START TIME: 0915	END TIME: 0950
SAMPLE ID: 828120MW06009	SAMPLE TIME: 0950	SITE NAME/INSTALLATION: 828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): [X] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER
TUBING ID (INCHES): [X] 1/8 [ ] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER
MEASUREMENT POINT (MP): [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

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

INITIAL DTW (BMP)	8.79 FT	FINAL DTW (BMP)	9.61 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	10.01 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter² 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0915	BEGIN PURGING									
0920	9.21	100	12.8	1.06	4.48	6.98	-143	5.26	9.5	
0925	9.25	100	13.3	1.11	1.99	7.04	-178	2.66	9.5	
0930	9.33	100	13.4	1.14	1.80	7.13	-186	2.85	9.5	
0935	9.35	100	13.3	1.15	1.40	7.23	-193	1.16	9.5	
0940	9.37	100	13.5	1.15	1.58	7.31	-193	2.87	9.5	
0945	9.40	100	13.5	1.16	1.44	7.39	-195	1.43	9.5	
0950	SAMPLE									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	14	1.16	1.4	7.4	200	1.4

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
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 [X] BLADDER [ ] WATTERA [ ] OTHER [ ] OTHER

DECON FLUIDS USED: [X] ALCONOX [X] DEIONIZED WATER [ ] POTABLE WATER [ ] NITRIC ACID [ ] HEXANE [ ] METHANOL [ ] OTHER Designated Tubing

TUBING/PUMP/BLADDER MATERIALS: [X] SILICON TUBING [X] HDPE TUBING [ ] LDPE TUBING [ ] OTHER [ ] OTHER
[ ] S. STEEL PUMP MATERIAL [ ] PVC PUMP MATERIAL [ ] GEOPROBE SCREEN [ ] OTHER [ ] OTHER [ ] OTHER

EQUIPMENT USED: [X] WL METER Heron [ ] PID [X] WQ METER YSI [X] TURB METER Lamotte [X] PUMP Peri [ ] OTHER [ ] FILTERS NO X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	VOC's	8260		NO	HCL	40ML X3	Yes

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: [X] YES [ ] NO
NO-PURGE METHOD UTILIZED: [ ] YES [ ] NO
NUMBER OF GALLONS GENERATED: 1.5

NOTES: 828120 MW06009 @ 0950
828120 MW06009-MS @ 0952
828120 MW06009-MSD @ 0955

Sampler Signature: [signature]
Print Name: Mark Ferlong
Date: 10/29/24

~~DEVIATIONS FROM THE WORK PLAN~~: 828120 DUP @ NoTime

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

EARTH ENVIRONMENT
Engineering and Geology P.C.
Two Monument Square, Suite 200 Portland, ME 04101

PROJECT NAME: Carriage Cleaners		LOCATION ID: MW-8B	DATE: 10/30/24
PROJECT NUMBER:		START TIME:	END TIME:
SAMPLE ID: 828120 MW08B026	SAMPLE TIME:	SITE NAME/INSTALLATION: NYDEC#828120	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 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)	9.49 FT	FINAL DTW (BMP)	9.54 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	29.30 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA 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	NA PPM	DISCHARGE TIMER SETTING	SEC
CALCULATED GAL/VOL (water column X well diameter² 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

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0 5 mg/L	pH (units) ±0 1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0930	BEGIN PURGING									
0935	9.52	150	14.0	1.04	0.89	7.17	-330	6.00	26	
0940	9.52	150	14.2	1.02	0.21	7.19	-372	20.5	26	
0945	9.52	150	14.1	1.02	0.23	7.17	-359	7.90	26	
0950	9.53	150	13.9	1.02	0.10	7.17	-363	10.3	26	
0955	9.53	150	14.0	1.02	0.08	7.17	-367	8.41	26	
1000	9.53	150	14.1	1.01	0.08	7.13	-372	6.20	26	
1005	9.54	150	14.1	1.01	0.07	7.14	-373	6.21	26	
1010	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP nearest degree (ex 10 1 = 10)
COND 3 significant figure max (ex 1 686 = 1 69)
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
X BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
OTHER Designated Tubing

TUBING PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER Heron
☐ PID
☒ WQ METER YSI
☒ TURB METER Lamotte
☒ PUMP peri
☐ OTHER
☒ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOC's	8260		NO	HCL	40 ML X3	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☐ YES ☐ NO
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO
NUMBER OF GALLONS GENERATED: 3 GAL

NOTES
828120 MW08B026 @ 1010

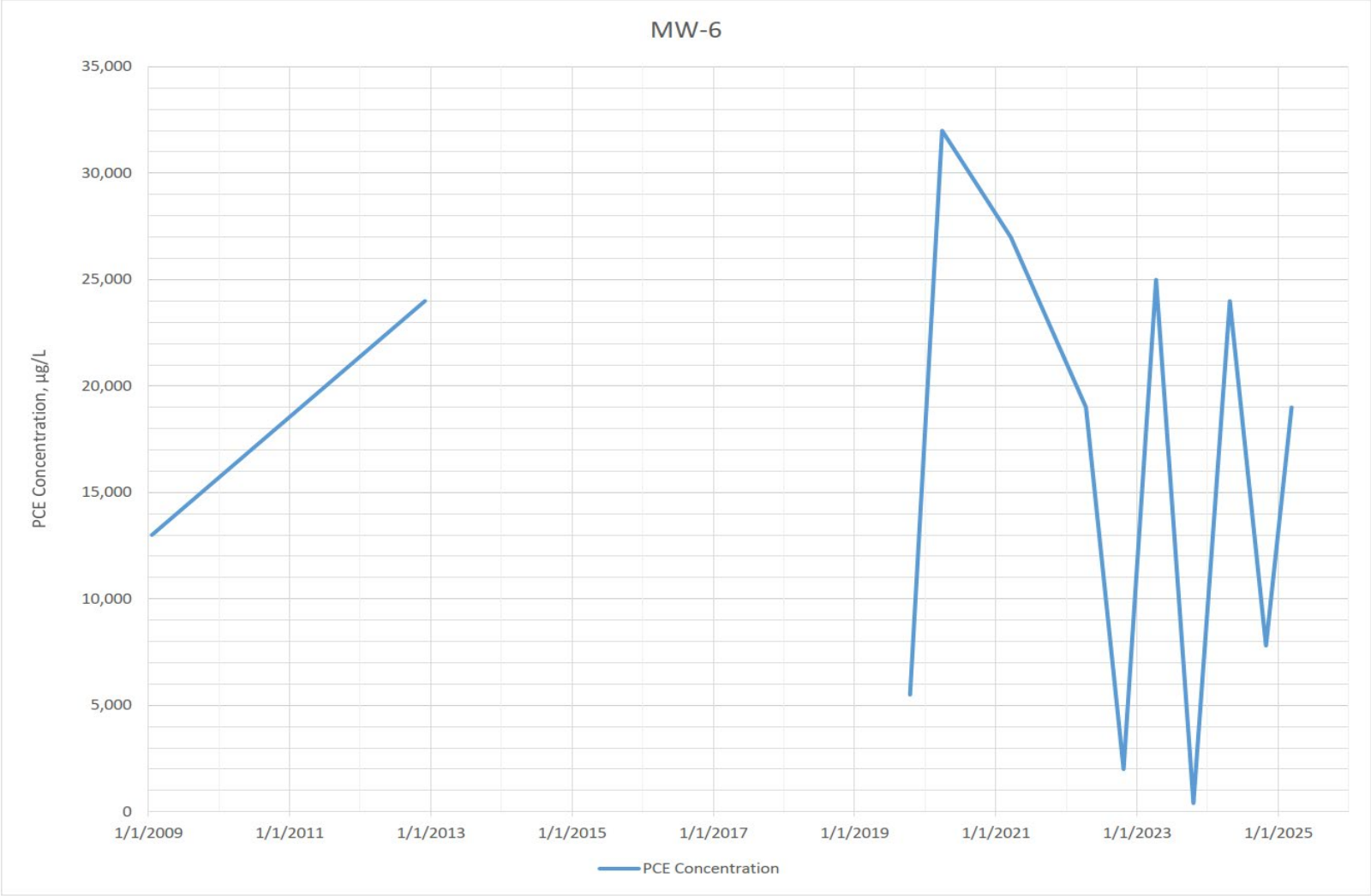
Sampler Signature: [signature] Print Name: Mark Fecony
Checked By: Date: 10/30/24

DEVIATIONS FROM THE WORK PLAN

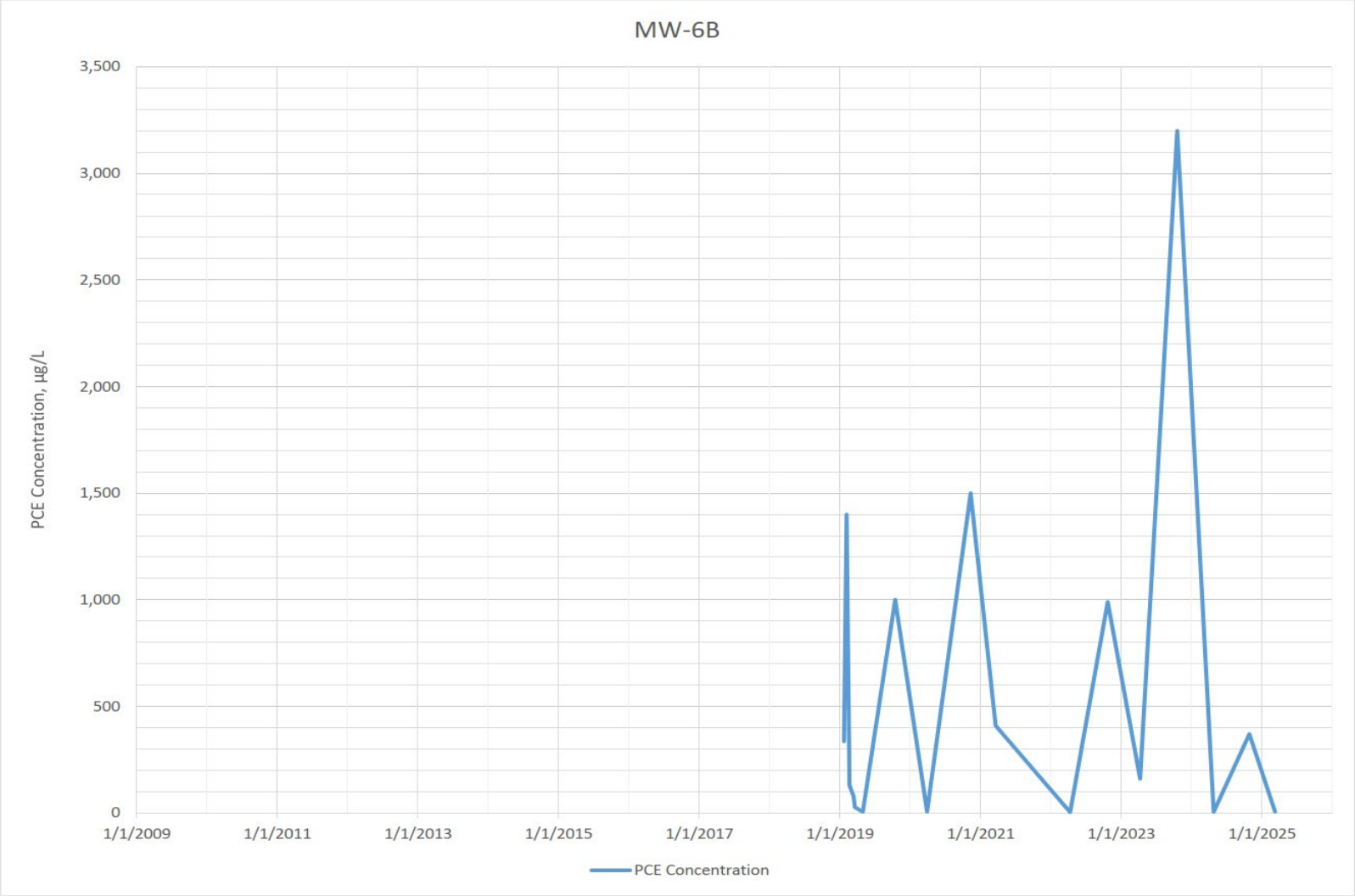
REV 3-29-2019

APPENDIX E

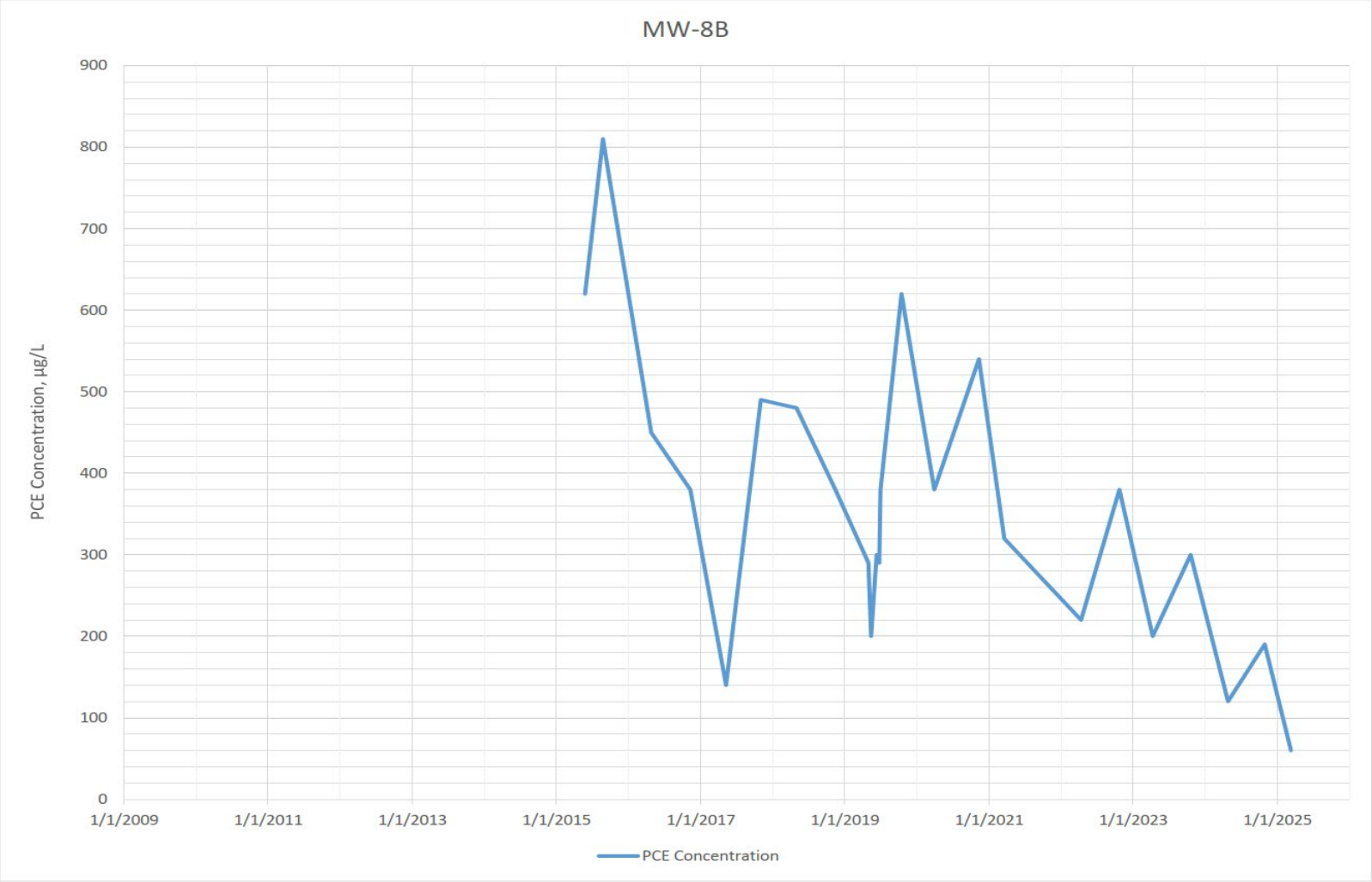
PCE TIME SERIES PLOTS



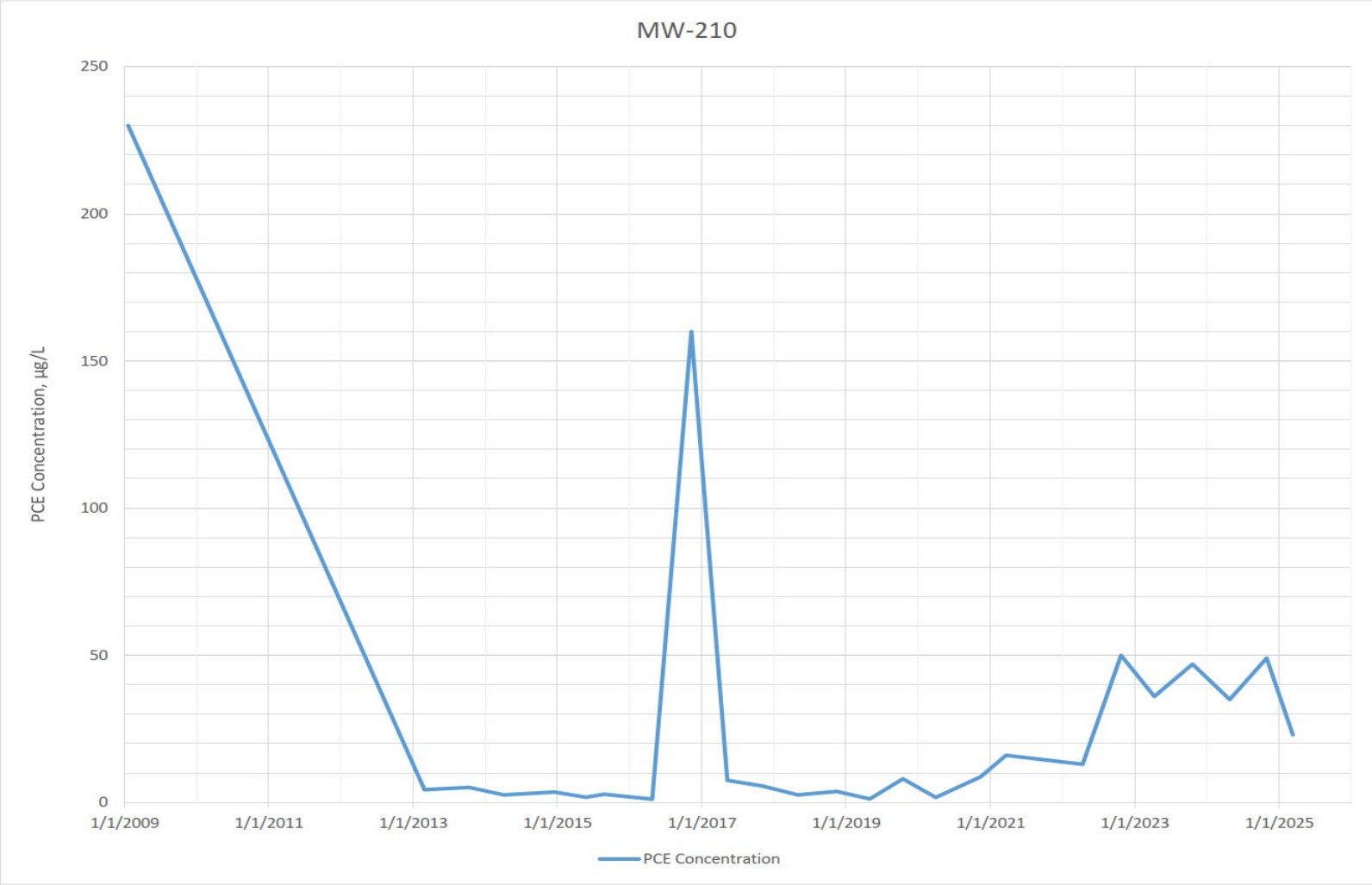
Note – Permanganate socks installed in monitoring well MW-6 from 2014 to 2018 and no groundwater sampling was conducted.



Note – Permanganate socks installed in monitoring well MW-6B from 2014 to 2018 and no groundwater sampling was conducted.



Note – GWETS was in operation from October 2011 to September 2020.



Note – GWETS was in operation from October 2011 to September 2020.

APPENDIX F

GREENHOUSE GAS EMISSIONS SUMMARY

Appendix F
Greenhouse Gas Emissions Summary

Description	Period Start	Period End	No. Months	Total Energy Usage	Monthly Avg Energy Usage	Total Calculated GHG Emissions	Annual Avg GHG Emissions	Monthly Avg GHG Emissions
Emissions in PRR Period[1]	6/30/2022	6/27/2025	36	284,886 kWh	7,914 kWh	88,754 lb CO_2e	29,585 lb CO_2e	2,465 lb CO_2e
Items below for comparison of SVE to SSDS operations								
Electric Usage - SVE only	6/30/2022	1/30/2024	19	257,586 kWh	13,557 kWh	60,275 lb CO_2e	38,068 lb CO_2e	3,172 lb CO_2e
Electric Usage - SSDS only	2/29/2024	6/27/2025	16	20,606 kWh	1,288 kWh	4,822 lb CO_2e	3,616 lb CO_2e	301 lb CO_2e
Difference - SVE to SSDS	-	-	-	-	12,269 kWh	55,453 lb CO_2e	34,452 lb CO_2e	2,871 lb CO_2e
% Reduction - SVE to SSDS	-	-	-	-	90.5%	92.0%	90.5%	90.5%
Monthly OM&M Visits (SVE)	-	-	-	-	-	-	1,524 lb CO_2e	127 lb CO_2e
Quarterly OM&M Visits (SSDS)	-	-	-	-	-	-	508 lb CO_2e	42 lb CO_2e
Difference - SVE to SSDS	-	-	-	-	-	-	1,016 lb CO_2e	85 lb CO_2e
% Reduction - SVE to SSDS	-	-	-	-	-	-	66.7%	66.7%
Overall - SVE	-	-	-	-	-	-	39,592 lb CO_2e	3,299 lb CO_2e
Overall - SSDS	-	-	-	-	-	-	4,124 lb CO_2e	344 lb CO_2e
Overall Difference - SVE to SSDS	-	-	-	-	-	-	35,468 lb CO_2e	2,956 lb CO_2e
Overall % Reduction - SVE to SSDS	-	-	-	-	-	-	89.6%	89.6%

Notes and Abbreviations:

[1] Total emissions includes SVE and SSDS OM&M, SVE to SSDS conversion, GWETS well abandonment, and groundwater sampling.

Avg = average

GHG = greenhouse gas

lb CO_2e = pounds of equivalent carbon dioxide

OM&M = operations, maintenance and monitoring

PRR = Periodic Review Report

SSDS = sub-slab depressurization system

SVE = soil vapor extraction

Total GHG emissions calculated considering: 1) the electricity sources for Rochester, NY, and 2) the type of vehicles and number of miles driven for each activity

Electric sources and GHG production calculated using the USEPA Emissions & Generation Resource Integrated Database (eGRID).

Passenger vehicles assumed 400 grams per mile of CO2e production.

Prepared by: VMW 2/13/26
Checked by: KJM 2/19/26

APPENDIX G
ENGINEERING CONTROLS – STANDBY CONSULTANT/CONTRACTOR CERTIFICATION FORM

NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Commissioner

8/29/2025

Kevin McKeever Project Manager
Earth Environmental Engineering and Geology, P.C. (EEEG)
751 Arbor Way
Suite 180
Blue Bell, PA 19422 kevin.mckeever@wsp.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Carriage Cleaners-Brighton
Site No.: 828120
Site Address: 2101 Monroe Avenue
Brighton, NY 14618

Dear Kevin McKeever:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site.
The PRR must be received by the Department no later than **October 08, 2025**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed, and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

https://www.dec.ny.gov/chemical/62440.html

Documents may be submitted to the project manager by contacting the project manager for a link to DEC' file transfer service.

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Donald Roe, the Project Manager, at 518-402-9693 or donald.roe@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURE
625 Broadway
Albany, NY 12233-7017

Enclosures

PRR General Guidance Certification Form Instructions Certification Forms

ec: w/ enclosures

ec: w/ enclosures
Donald Roe, Project Manager

Benjamin Rung, Section Chief
David Pratt, Hazardous Waste Remediation Supervisor, Region 8

The following parcel owner did not receive an ec:
Brien Bigalow - Parcel Owner

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 828120

Site Name Carriage Cleaners-Brighton

Site Address: 2101 Monroe Avenue Zip Code: 14618-
City/Town: Brighton
County: Monroe
Site Acreage: 0.250

Reporting Period: September 08, 2022 to September 08, 2025

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 828120 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
137.14-1-36	Brien Bigalow	Ground Water Use Restriction Landuse Restriction Site Management Plan

Institutional controls in the form of an environmental easement (EE) are being used to impose land use restrictions and groundwater use restrictions at the site. The EE for this site was recorded on 3/27/13 in Monroe County as Document #201303271013, in Book 11235 and Pages 11-21.

Specifically, the environmental easement requires:

(a) limiting the use and development of the property to commercial use (which the property is currently zoned), which will also permit industrial use;
(b) land use restrictions will require proper worker protections during construction or excavation activities that would potentially cause a worker to contact contaminated soil, groundwater or soil vapor;
(c) compliance with the approved site management plan;
(d) groundwater use restrictions will preclude the use of groundwater at the Site without prior notification and approval from NYSDEC;
(e) restrictions related to soil, groundwater, and soil vapor will be implemented on the site property; and
(f) the property owner to complete and submit to the Department a periodic certification of institutional and engineering controls.

The December 2012 Site management plan includes the following institutional and engineering controls:

(a) management of site excavation activities to ensure that excavated soil will be tested, properly handled to protect the health and safety of workers and the nearby community, and will be properly managed in a manner acceptable to the Department;
(b) continued evaluation of the potential for vapor intrusion for any buildings developed on the site, including provision for mitigation of any impacts identified;
(c) continued operation and periodic evaluation of the sub-slab depressurization systems at the site (2111 Monroe Avenue) and at off-site properties;
(d) monitoring of groundwater and soil vapor;
(e) identification of any use restrictions on the site; and
(g) provisions for the continued proper operation and maintenance of the components of the remedy.

The property owner is required to provide a periodic certification of institutional and engineering controls, prepared and submitted by a professional engineer or such other expert acceptable to the Department, until the Department notifies the property owner in writing that this certification is no longer needed. The environmental easement which will trigger periodic certifications can only be amended or extinguished by the Commissioner.

This submittal will:

(a) contain certification that the institutional controls and engineering controls put in place are still in place and are either unchanged from the previous certification or are compliant with Department-approved modifications;
(b) allow the Department access to the site; and
(c) state that nothing has occurred that will impair the ability of the control to protect public health or the environment, or constitute a violation or failure to comply with the site management plan unless otherwise approved by the Department.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
137.14-1-36	Vapor Mitigation Cover System

There are currently two EC systems at the Site:

(1) Asphalt and Concrete Cover System
(2) SVE/SSDS System

(1) Asphalt and Concrete Cover System: Exposure to remaining contamination in soil at the Site is prevented by an asphalt and concrete cover system over the contaminated soils at the Site. Specifically, this cover system is comprised of a minimum of four to six inches of asphalt pavement and concrete building slabs. The extent of the cover system is documented in the ALTA/ASCM Land Title Survey.

(2) Soil Vapor Extraction/Sub-Slab Depressurization System: Remedial site optimization resulted in the decision to reduce the size of the existing SVE system. Between 2023 and 2024, the SVE system was converted to a SSDS to minimize operation costs while continuing to reduce vapor intrusion to the building and mitigate VOC migration to groundwater.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 828120

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____
print name print business address

am certifying as _____ (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jamie Welch (print name) at Earth Environment Engineering and Geology PC , Portland, Maine (print business address)

am certifying as a Professional Engineer for the New York State Department of Environmental Protection (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

April 17, 2026
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.