



# PERIODIC REVIEW REPORT SEPTEMBER 2019 – SEPTEMBER 2024

**PREFERRED ELECTRIC MOTORS, INC. SITE  
ROCHESTER, NEW YORK 14621**

**NYSDEC Site No. 828106**

**Work Assignment No. D009812-25**



Prepared for:



**Division of Environmental  
Remediation**

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## LIST OF ACRONYMS AND ABBREVIATIONS

Class GA Values	NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Standards and Guidance Values
cis-1,2-DCE	cis-1,2-dichloroethene
COCs	Contaminants of Concern
CVOCs	Chlorinated Volatile Organic Compounds
D&B	D&B Engineers and Architects, P.C.
1,1-DCE	1,1-Dichloroethene
1,1-DCA	1,1-Dichloroethane
DER	Department of Environmental Remediation
DUSRs	Data Usability Summary Reports
ECs	Engineering Controls
EHC®	EHC® as manufactured by Adventus Remediation Technologies, Inc.
FS	Feasibility Study
ICs	Institutional Controls
IHWDS	Inactive Hazardous Waste Disposal Site
IRM	Intermediate Remedial Measure
MACTEC	MACTEC Engineering & Consulting, P.C.
ND	Not detected
ng/L	Nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PCE	Tetrachloroethylene, also known as Perchloroethylene
PCBs	Poly-Chlorinated Biphenyls
PDI	Pre-Design Investigation
PEM	Preferred Electric Motors, Inc.
PES	Precision Environmental Services, Inc.
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PRR	Periodic Review Report
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RI	Remedial Investigation
RI/FS	Remedial Investigation / Feasibility Study (RI/FS)
ROD	Record of Decision
SBL	Section Block Lot
SCGs	Standards, Criteria, and Guidance
SIM	Selective Ion Monitoring
SMP	Site Management Plan
SMR	Site Management Report
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
1,1,1-TCA	1,1,1-Trichloroethane



TCE	Trichloroethene
TCL	Target Compound List
TOGS	NYSDEC Division of Water Technical and Operational Guidance Series
trans 1,2-DCE	trans 1,2-Dichloroethene
TRC	TRC Engineers, Inc.
TSCA	Toxic Substance Control Act
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
µg/L	Micrograms per liter



## Executive Summary

Category	Summary/Results
Engineering Controls (ECs)	<ul style="list-style-type: none"> <li>• Groundwater Monitoring Well Network</li> <li>• Cover System</li> <li>• Off-Site Residential Sub-Slab Depressurization Systems (SSDSs)</li> </ul>
Institutional Controls (ICs)	<ul style="list-style-type: none"> <li>• The property use is limited to Restricted Residential, Commercial, or Industrial use only, in accordance with current zoning.</li> <li>• Site Management Plan (SMP) (2021)</li> <li>• Environmental Notice (2013) <ul style="list-style-type: none"> <li>○ Groundwater-Use Restriction</li> <li>○ Land-Use Restriction</li> </ul> </li> </ul>
Site Classification	Class 4 Inactive Hazardous Waste Disposal Site (IHWDS) (reclassified in August 2014)
Site Management Plan	SMP –August 2021
Certification/Reporting Period	The Certification Period of this Periodic Review Report (PRR) is September 30, 2019, to September 30, 2024.
Inspection	Frequency
Site-wide Inspection	Annually
Cover Inspection	Annually
Sub-Slab Depressurization System (SSDS) Inspection*	Annually * Operation and maintenance of the off-site residential SSDSs was managed under a separate state-wide contract during this reporting period; thus, these activities were not covered by this PRR. Inspection covered by this PRR generally consisted of exterior visual inspections only.
Monitoring	Frequency
Groundwater	Annually
Prior PRR/SMR* Recommendations	<p>The prior PRR prepared for the June 10, 2013, to September 30, 2019 (April 2020) reporting period included the following recommendations:</p> <ul style="list-style-type: none"> <li>• Update SMP to include additional documentation of remaining contamination at the Site.</li> <li>• Update SMP to include further details of SSDS Operations and Maintenance.</li> <li>• Update SMP to revise the Certification Statement from “for every monitoring event” to every five years.</li> <li>• Update SMP to remove indoor air monitoring requirement.</li> <li>• Continue annual groundwater monitoring.</li> <li>• Continue annual Site-wide inspection, annual asphalt cover and SSDS inspection.</li> </ul> <p>Note all recommendations listed above and in the April 2020 PRR have been included in Revision 1 of the SMP, published August 2021.</p> <p>*A Site Management Report (SMR) was not completed during the reporting period. As a cost saving measure, SMRs are no longer required as part of Site management.</p>
Site Management Activities	<p>Four Site-wide inspections, four rounds of groundwater monitoring, and four visual inspections of off-Site residential SSDSs were performed during the report period of September 30, 2019, to September 30, 2024.</p> <ul style="list-style-type: none"> <li>• <u>11/19-11/20/2019</u>: D&amp;B Engineers and Architects, P.C. (D&amp;B) performed the routine annual Site-wide inspection, annual groundwater monitoring event, and a visual inspection of the two off-Site SSDSs.</li> </ul>



Category	Summary/Results
	<ul style="list-style-type: none"> <li>12/15-12/16/2020: D&amp;B performed the routine annual Site-wide inspection, annual groundwater monitoring event, and visual inspection of the two off-Site SSDSs.</li> <li>12/13-12/14/2021: D&amp;B performed the routine annual Site-wide inspection, annual groundwater monitoring event, and visual inspection of the two off-Site SSDSs.</li> <li>11/15/2022: TRC Engineers, Inc. (TRC) performed the routine annual Site-wide inspection, annual groundwater monitoring event, and visual inspection of the two SSDSs.</li> <li>Winter 2023: The required annual inspections and groundwater monitoring event were not completed. NYSDEC was notified that the work was not completed.</li> </ul>
Significant Findings or Concerns	<ul style="list-style-type: none"> <li>Groundwater concentrations of benzene, chloroethane, 1,1-dichloroethane (1,1-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), methylene chloride, trichloroethene (TCE), and vinyl chloride exceeded the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Standards and Guidance Values (Class GA Values) at one or more locations during this monitoring period.</li> <li>Groundwater concentrations of Perfluorooctanesulfonic Acid (PFOS), Perfluorooctanoic Acid (PFOA), and 1,4-dioxane exceeded the Class GA Values at one or more locations during this monitoring period.</li> <li>The off-Site residential SSDS, located at 40 Fernwood Avenue, was observed to not be operating on November 19, 2019, and the building appeared to be unoccupied. However, during the next inspection in December 2020, this SSDS was operating again. The two off-Site SSDSs should be operated continuously to prevent intrusion of vapors into occupied structures.</li> </ul>
Recommendations	<ul style="list-style-type: none"> <li>Revise the SMP requirement for annual site-wide cover systems inspections, and groundwater monitoring to every five quarters (approximately 15 months).</li> <li>No further collection of groundwater samples from groundwater monitoring wells MW-4 and MW-7. These wells should remain listed for water level monitoring because they are important for estimating the groundwater flow pattern.</li> <li>Repairing or replacing casing lids and/or casing lid bolts of groundwater monitoring wells MW-2, MW-3, MW-4, MW-7, and MW-5. As well as replacing the surface completion at groundwater monitoring well MW-4.</li> <li>The off-Site SSDSs located at 40 Fernwood Avenue and 46-48 Fernwood Avenue should continue to be maintained as required by the SMP. (The duct-taped Fernco® fitting at the 40 Fernwood Avenue SSDS be repaired properly.)</li> <li>Exterior inspections of the on-site SSDS/SVE system and off-site residential SSDSs shall be conducted at least annually, and perform comprehensive inspections at least every five years.</li> <li>The SMP should be revised to reflect the above changes/modifications, if such changes are acceptable to the NYSDEC.</li> </ul>
Cost Evaluation	<p>The total cost of site management activities for this reporting period since TRC began managing site management activities in April 2022, and continuing through September 2024, was \$17,051. These activities included project management/administration tasks, one annual Site-wide inspection, and one groundwater monitoring event. The total cost includes all associated labor costs and expenses expended from April 30, 2022, through September 30, 2024.</p>
Green and Sustainable Remediation Metrics	<p>Approximately 8,800 kilowatt-hours of electricity were used during this reporting period to run SSDSs. Minimal amounts (less than 50 pounds) of solid waste were generated on-Site during Site management activities this reporting period. Approximately 2,600 miles were driven during this reporting period for Site management activities. Less than 25 gallons of public potable water was used during this reporting period for Site management activities. No land was disturbed on-Site during this reporting period. Additional details concerning green and sustainable remediation metrics are presented in <b>Appendix A</b>.</p>



## 1.0 Introduction

This Periodic Review Report (PRR) has been prepared for the Preferred Electric Motors, Inc. (PEM) Site (referred to as “the Site”) and covers the period between September 30, 2019, through September 30, 2024. This PRR was prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) Work Assignment (WA) No. D009812-25.2, Notice to Proceed dated November 19, 2021, NYSDEC-approved Scope of Work dated April 1, 2022 (and subsequent amendments), NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (DER-10) and NYSDEC DER-31, Green Remediation (DER-31). A Site summary and applicable remedial program information are presented below.

Site Information			
<b>Site Name:</b>	Preferred Electric Motors, Inc. Site	<b>NYSDEC Site No:</b>	828106
<b>Site Location:</b>	42 Fernwood Avenue, City Rochester, Monroe County, NY	<b>Remedial Program:</b>	State Superfund Program
<b>Site Type:</b>	Electric Motor Refurbishing	<b>Classification:</b>	Class 4 Inactive Hazardous Waste Disposal Site (IHWDS)
<b>Parcel Identification(s):</b>	Section, Block, Lot # 106.27-1-77, Monroe County Tax Map	<b>Parcel Acreage / EE Acreage:</b>	0.35 acres
<b>Selected Remedy:</b>	Excavation of Contaminated Soil, Enhanced Biodegradation, Cover System, off-Site Sub-Slab Depressurization Systems (SSDSs)	<b>Site Contaminants of Concern (COCs):</b>	Volatile Organic Compounds (VOCs)
<b>Current Remedial Program Phase:</b>	Post Remedial Action Site Monitoring, Site Management	<b>Institutional Controls:</b>	<ul style="list-style-type: none"> <li>Site Management Plan (SMP) (February 2014; Revision 1 Published August 2021)</li> <li>Environmental Notice (2013)               <ul style="list-style-type: none"> <li>Land and groundwater use restrictions</li> </ul> </li> </ul>
<b>Post-Remediation Monitoring and Sampling Frequency:</b>	Groundwater Monitoring – Annually Site Inspections – Annually Off-Site SSDS Visual Inspections – Annually*	<b>Engineering Controls:</b>	<ul style="list-style-type: none"> <li>Site Cover System</li> <li>Groundwater Monitoring Well Network</li> <li>Off-Site Residential SSDS</li> </ul>
<b>Monitoring Locations:</b>	Eight Overburden Monitoring Wells Seven Historical Overburden Monitoring Wells (i.e., not located but no record of abandonment)	<b>Required Reporting:</b>	<ul style="list-style-type: none"> <li>PRR – Every Five Years</li> </ul>

\* Operation and maintenance of the off-site residential SSDSs was managed under a separate state-wide contract during this reporting period; thus, these activities were not covered by this PRR. Inspection covered by this PRR generally consisted of exterior visual inspections only.



## 1.1 Site Location, Ownership, and Description

The Site is located at One Industrial Place, 42 Fernwood Avenue in the City of Rochester, Monroe County, New York (see **Figure 1**). The Site consists of one parcel, Section Block Lot (SBL) # 106.27-1-77 of the Monroe County Tax map, and is currently owned by Fernwood Land Trust #060107, Inc. The Site is approximately 0.35 acres in size and bounded by residential properties to the north, residential and commercial properties to the east, Fernwood Avenue to the south, and residential properties to the west (see **Figure 2**).

## 1.2 Investigation/Remedial History

Between 1911 and 1951, the Site was owned by W.A Margander and Company Contractors (W.A Margander). A 1911 Fire Insurance Map indicates that the center portion of the on-Site building was built prior to 1911, with the southern and northern sections of the building added by W.A Margander to accommodate an automobile repair shop and additional equipment storage area. Later additions to the building include the office space located on the east side of the building and the hallway located on the west side of the building. The Site was purchased by PEM in 1952 and used for light industrial operations until approximately December 2000 when operations ceased. PEM's work included refurbishing and repairing electric motors. PEM utilized a degreaser tank for removing oil/residues from electric motor components; and was located in the northwest corner of the building. The Site was sold in December 2005 to Frontier Carpets Inc. and used intermittently as a storage facility. In 2007, site ownership was transferred to Fernwood Land Trust #060107 Inc. Presently, the Site consists of an approximately 13,200 square foot structure and a partially paved parking lot.

In May of 2000, the NYSDEC was first notified of contamination at the Site when a spill was reported resulting from the release of used solvents (primarily trichloroethene [TCE]) that had been stored in 55-gallon drums in the yard. In May/June 2000, PEM contracted Environmental Products and Services, Ltd. to remove approximately fifteen 55-gallon drums of spent solvent, as well as several inches of topsoil from the Site yard for off-Site disposal. Subsequently, remedial activities were ceased by PEM due to lack of funds. The NYSDEC conducted limited surface and subsurface soil sampling in June 2000 following the surface soil removal by PEM's contractor. In August of 2000, the NYSDEC initiated a state-funded Interim Remedial Measure (IRM) to remove an abandoned 1,000-gallon underground storage tank (UST) reportedly containing fuel oil, excavate, and properly dispose of 470 tons of contaminated soils, and install a soil vapor extraction (SVE) system in November 2000 at an adjacent residence (40 Fernwood Avenue). These IRM activities were completed in February 2001. In 2000, the NYSDEC listed the Site as a Class 2 Site in the Registry of IHWDS.

Between December 2000 to December 2005, heavy equipment and scrap electric motors were removed from the site building by the site owner.

MACTEC Engineering & Consulting, P.C. (MACTEC) was contracted by the NYSDEC to perform a Remedial Investigation / Feasibility Study (RI/FS) to serve as the basis for remedy selection. Subsurface soil sampling completed as part of the RI/FS conducted between June 2004 and February 2007, found that VOCs in excess of the soil cleanup objectives were detected at three boring locations around the former UST removal action excavation. Several semi-volatile organic compounds (SVOCs) including benzo(a)anthracene, benzo(b)pyrene, benzo(z)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenz(a,h)anthracene were detected above soil cleanup objectives at one boring location (GP7). The groundwater sampling results of the RI/FS indicated a groundwater source area near groundwater monitoring well MW-1 (located in the driveway immediately south of the site building), with the VOC contaminants migrating to the south and, to a lesser degree, the north. TCE and xylene were detected



in groundwater near the former location of the degreaser at concentrations exceeding their corresponding NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Standards and Guidance Values (Class GA Values) of 5 parts per billion. The highest concentrations of the VOCs, including 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2 DCE), vinyl chloride and tetrachloroethene (PCE) were detected in a groundwater at groundwater monitoring well MW-1. The highest concentration of TCE was detected in groundwater monitoring well MW-2 located approximately 100 feet south of groundwater monitoring well MW-1. Benzene, toluene, ethyl benzene, and xylene were also detected at groundwater monitoring well MW-1 at concentrations exceeding their corresponding Class GA Values. Petroleum and fuel-related VOCs were also detected at various groundwater sampling locations, at levels exceeding their corresponding Class GA Values. The RI/FS also covered media sampling within the PEM building, including floors and floor drains. Three samples of oil and soil residue from the floors of three separate rooms (former metal press, metal work, and degreaser/oven areas) were collected and analyzed for polychlorinated biphenyls (PCBs). PCBs were detected in all three samples at concentrations below the 50 parts per million (ppm), requiring cleanup under Toxic Substance Control Act (TSCA) guidelines; however, these detected concentrations were above guideline numbers for an unrestricted facility (i.e., 1.0 milligram per kilogram under TSCA). While there are no applicable guidelines or standards relating to the samples taken from floor drains within the building, elevated levels of VOCs, SVOCs, metals, and two pesticides were detected. In September 2005, MACTEC, under contract to the NYSDEC, removed several intact containers of oil and degreasers from the Site, along with containers of soil from a previous remedial action performed in 2005.

Soil vapor, sub-slab soil vapor, and indoor air samples were collected as part of the RI/FS between January and May 2006, to evaluate the potential for human exposures to VOCs volatilizing from soils and/or groundwater. Two sub-slab soil vapor samples were collected from beneath the site building. A vapor sample was collected from the existing SVE system and was installed at 40 Fernwood Avenue along with several soil gas samples from locations around the site building (borings GV-1 through GV-7). Boring GV-1 and GV-2 located south of groundwater monitoring well MW-2 showed elevated concentrations of petroleum and solvent related VOCs. The highest detections of 1,1,1-TCA and TCE, were in boring GV-6, located in the driveway southeast of groundwater monitoring well MW-1. Two sub-slab soil vapor samples (SV-1 and SV-2) were collected from beneath the slab of the site building during the initial soil vapor sampling event. The sample from SV-1 contained the highest level of PCE detected during this sampling event. 1,1,1-TCA and TCE were not detected in sub-slab soil vapor samples. In addition to the two sub-slab soil vapor samples collected on-Site, one discharge vapor sample (EP- 001) was collected from the SVE system located at 40 Fernwood Avenue. No chlorinated solvents were detected.

Analytical results from the initial soil gas and sub-slab soil vapor survey were used as a basis for the selection of follow-up locations for a vapor intrusion investigation. As a result, 11 sub-slab soil vapor samples, 11 basement indoor air samples, and 12 first floor indoor air samples were collected from 12 private residences/businesses. Two of the locations were located along Portland Avenue and 10 locations were located along Fernwood Avenue. Four outdoor ambient air samples were collected to evaluate background air quality. A total of 12 residences were tested for soil vapor intrusion. Of these 12 residences, one mitigation system was installed, and two residences were found to require additional monitoring.

A Record of Decision (ROD) was issued by NYSDEC in March 2008. The selected remedy consisted of the removal of select contaminated soil, application of a biodegradation enhancing reagent to the excavation areas to promote dichlorination, cover system over backfilled excavated areas, upgrade existing mitigation system at 40 Fernwood Avenue, and installation of a SSDS at an adjacent residence located at 46-48 Fernwood Avenue.



In 2009, MACTEC was retained to conduct a pre-design investigation (PDI) involving the installation of additional groundwater monitoring wells, performance of bench-scale testing (on-site soil/groundwater), evaluate the feasibility of biodegradation remediation, as well as the collection of the information required for the design of the selected remedy. Additionally, a Site survey including certified boundary survey was conducted. From the bench-scale testing, ADVENTUS EHC® (EHC®) was selected as the reagent to be applied in the excavation backfill to promote dichlorination. MACTEC developed design drawings, specifications, and bid documents for the final remedy, which were completed in September 2010. The contract for this work went out to bid in 2011. Precision Environmental Services, Inc. (PES) was awarded the project contract.

Remedial action activities were performed by PES between February 21, 2011 and July 31, 2011. Specifically, these activities included the following:

- Selective demolition of SVE system (at 40 Fernwood Avenue) and fencing.
- On-Site building floor scarification to remove PCBs. An approximate one-inch layer of floor concrete was removed from the majority of the site building. A 170-square-foot area required an alternate remediation method due to permanent shelving located within the area. Verification sampling was performed, and additional scarification was performed, as needed. Due to the thin, poor-quality concrete flooring, or the area under permanent shelving, a fiber reinforced concrete mortar was used to cover portions of the flooring.
- Cleaned accumulated sediments from three floor drains within the site building.
- Approximately 496 tons of contaminated soil were excavated and disposed of off-Site. Potentially clean soil excavated (generated during shoring installation and/or the sloping of the excavation) was tested and, if acceptable, was re-used as backfill.
- The biodegradation promoting reagent EHC® was applied to the bottom and side slopes of the completed excavation.
- Gas and sanity sewer utility lines encountered during excavation activities were replaced by a licensed plumber, per local building codes.
- The excavation was mainly backfilled with common borrow (noted as a silty sand) imported from off-site. A quantity of on-site soil was tested for environmental and geotechnical considerations and used as backfill. Crushed stone (0.75 inches in size) was utilized for pipe bedding and injection point trenching. New York State Department of Transportation Type 2 aggregate was used as an asphalt pavement subbase.
- Site restoration included the application of 4,247 square feet of six-inch thick asphalt and the installation of an 82.8 square-foot landscaped lawn area.
- Post-remediation as-built drawings were produced by PES, including an Excavation Plan and a Final Conditions Plan.

Following the completion of the remedial action activities described above, MACTEC performed post-remedial action activities in two phases, which included the following:

#### Phase I

- Collection of a post-remedial action baseline round of groundwater samples at the Site.
- Collection of sub-slab soil vapor and indoor air samples from an adjacent residence.
- Injection of an initial volume of the biodegradation reagent EHC® into two injection points within the remedial action excavation areas on-site.
- Securing the plastic vapor barrier in the dirt crawl space within the adjacent residence.



- Upgrade the passive SSDS to an active SSDS at the adjacent residence at 40 Fernwood Avenue (a passive SSDS remained after the SVE system was removed) by joining the sub-slab piping in the basement and crawl space through a manifold; adding a blower; and extending the riser piping to above the roofline of the structure.

## Phase II

- Additional injection of the remaining volume of the bioremediation reagent into two subsurface trenches located within remedial action excavation areas on-site and groundwater monitoring well MW-13.
- Collection of a second round of groundwater samples at the Site, approximately three months after the remaining bioremediation reagent injections.

A Post-Remedial Action Field Activities Plan was prepared by MACTEC in September 2011. In 2012, MACTEC prepared a Final Engineering Report for the Remedial Action and performed subsequent Post-Remedial Action activities. In 2013, NYSDEC prepared an Environmental Notice for the Site. In 2014, the NYSDEC reclassified the Site to a Class 4 Site, determining that the cleanup requirements to address site-related contamination had been or would be met. In 2019, D&B Engineers and Architects, P.C. (D&B) prepared the first PRR for the Site, covering the period of 2013 through 2019.

A detailed Site history, including the dates and descriptions of significant events, and a Custodial Record detailing known and available Site reports, is included in **Appendix B**.

### 1.3 Remaining Contamination

As presented in the SMP, soil was removed during the 2011 remedial action activities to meet the Restricted Residential Use Soil Cleanup Objectives. Potentially contaminated soil present beneath the on-site building was not removed due to the presence of the building. Any future construction activities which may disturb remaining potentially contaminated material must be conducted in accordance with the SMP. Also as presented in the SMP and as reflected by site data gathered during the 2019 to 2024 reporting period, on-site and off-site groundwater exhibit concentrations of VOCs above corresponding Class GA Values. Recent groundwater analysis for emerging contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS), including perfluorooctanoic acid (PFOA) has resulted in the detections of these contaminants above corresponding Class GA Values. Groundwater analytical results for VOCs, 1,4-dioxane, and PFAS/PFOA and related compounds are presented in **Tables 3 and 4**.

Additionally, one sample location collected during the remedial action activities exhibited a total PCBs concentration of 1.58 ppm in a section of flooring within the on-Site building. Due to the presence of permanently mounted storage racks within the area, the area was not able to be remediated via scarification; therefore, a fiber reinforced concrete mortar mix was used to cover portions of the flooring as a cover system.

### 1.4 Regulatory Requirements/Cleanup Goals

Goals for the remedial program for the Site are outlined in the ROD and Environmental Notice. The overall remedial goal is to meet all Standards, Criteria, and Guidance (SCG) values and protect human health and the environment. At a minimum, the selected remedy must eliminate or mitigate through the proper application of scientific and engineering principles all significant threats to public health and/or the environment presented by the hazardous waste at the Site. The goals selected for the Site as presented in the ROD are as follows:



Eliminate or reduce the following, to the extent practical:

- Exposures of persons at or around the Site to chlorinated solvents and petroleum compounds in subsurface soil, groundwater, and indoor air.
- Exposures of persons at or around the Site to PCBs in concrete floors of the site building.
- The release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards.
- The release of contaminants from groundwater, subsurface soil in the parking area and under buildings, into indoor air and ambient air through soil vapor intrusion.

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

- Ambient groundwater quality standards.



## 2.0 Institutional and Engineering Control Plan Compliance

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### 2.1 Institutional Controls

A series of Institutional Controls (ICs) are required by the SMP to:

- Implement, maintain, and monitor Engineering Control (EC) systems.
- Prevent future exposure to remaining contamination.
- Limit the use and development of the Site to restricted residential, commercial, or industrial uses only.

Adherence to these ICs is required by the Environmental Notice for the Site and are implemented under the SMP. ICs identified in the SMP and Environmental Notice may not be discontinued without an amendment to or extinguishment of the Environmental Notice approved by the NYSDEC.

The ICs specifically include the following:

- The Site may be used for restricted residential, commercial, or industrial uses provided that the long-term ICs included in the SMP are employed.
- All ECs must be operated and maintained, as specified in the SMP.
- All ECs must be inspected at a frequency, and in a manner, defined in the SMP.
- The use of groundwater underlying the Site is prohibited without necessary water quality treatment, as determined by the New York State Department of Health (NYSDOH) or the County Department of Health, to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to site management must be reported at the frequency, and in a manner, as defined in the SMP.
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP and the Excavation Work Plan.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed at the frequency, and in a manner, as defined in the SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York, with reasonable prior notice to the site owner, to assure compliance with the restrictions identified by the associated deed restrictions.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the site boundary shown on **Figure 2**, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the Site are prohibited.
- An evaluation shall be performed to determine the need for further investigation and remediation, should large-scale redevelopment occur, any of the existing structures be demolished, or subsurface soil of the Site be otherwise made accessible.



## 2.2 Engineering Controls

The ECs for the Site include the groundwater monitoring well network, cover system, and off-site SSDSs. The cover system consists of the Site building and associated paved parking areas. The operation and maintenance of the off-site SSDSs are managed by a separate state-wide contract; thus, these activities are not covered by this PRR. The off-site SSDSs were installed in two nearby off-site residences, one in 2000 and the other in 2007, to mitigate indoor air impacts exceeding SCG values. The residential system located at 40 Fernwood Avenue was operated as a SVE system from 2000 until 2011; and was converted to an active SSDS part of post-remedial activities in 2012. The active SSDS located at 46-48 Fernwood Avenue has been in operation since 2007. The completed IC/EC form is included in **Appendix C**.



### 3.0 Monitoring and Sampling Plan Compliance

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

Summary of SMP Site Monitoring and Sampling Plan				
Site Management Activity	Frequency	Location	Laboratory Analysis	Completion Date(s):
Site-Wide Inspection including Cover System Inspection	Annually	42 Fernwood Avenue, Rochester, NY (SBL # 106.27-1-77, Monroe County Tax Map)	Not Applicable	11/19 and 20/2019, 12/15 and 16/2020, 12/13 and 14/2021, and 11/15/2022
SSDS Exterior Visual Inspection	Annually	40 Fernwood Avenue Rochester, New York and 46-48 Fernwood Avenue Rochester, New York	Not Applicable	11/19 and 20/2019, 12/15 and 16/2020, 12/13 and 14/2021, and 11/15/2022
Groundwater Sampling for VOCs	Annually	Groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10	VOCs by United States Environmental Protection Agency (USEPA) Method 8260C	11/19 and 20/2019, 12/15 and 16/2020, 12/13 and 14/2021, and 11/15/2022
Groundwater Sampling for 1,4-Dioxane	Annually	Groundwater monitoring well MW-2	1,4-Dioxane by USEPA Method 8270 SIM	11/19/2019, 12/14/2021, and 11/15/2022
PRR	Every five years	Not Applicable	Not Applicable	October 2024

**Note:** In the August 2021 SMP Revision, Indoor Air monitoring requirements were removed in consultation with NYSDEC.

During the SSDS Exterior Visual Inspections completed in 2020 and 2021, D&B was able to inspect the interior of 40 Fernwood Avenue and observe a negative pressure created by the SSDS.



### 3.1 Site-Wide Inspection

D&B performed an annual site-wide inspection on November 19 and 20, 2019 and another site-wide inspection on December 15 and 16, 2020, each in accordance with the August 2014 SMP. D&B subsequently revised the August 2014 SMP, and it was approved by the NYSDEC in August 2021. On December 13 and 14, 2021, D&B performed an annual Site-wide inspection in accordance with the revised August 2021 SMP.

After acquiring Site management responsibilities in early 2022, TRC performed an annual Site-wide inspection on November 15, 2022, in accordance with the August 2021 SMP. The NYSDEC was notified, and a site inspection was not completed in 2023.

Each of the site inspections noted above included an evaluation of the Site cover system, visual inspection of the off-site residential SSDSs, and assessment of compliance with all ICs (including Site usage). It should be noted that the operation and maintenance of the off-site residential SSDSs are managed by a separate state-wide contract; thus, these activities are not covered by this PRR.

A summary of the Site inspections is presented below, and the associated Site inspection forms can be found in **Appendix D**.

Summary of Site Activities, Site Monitoring, and Sampling September 2019 through September 2024		
Site Management Activity	Summary of Results	Maintenance/Corrective Measure
Site-Wide Inspection	<p><u>November 19 and 20, 2019</u>: D&amp;B performed a Site-wide inspection and noted the cover system to be in good condition. D&amp;B observed the on-Site building to be unlocked and filled with various debris.</p> <p><u>December 15 and 16, 2020</u>: D&amp;B performed a Site-wide inspection and noted the cover system to be in good condition. D&amp;B observed the on-Site building, which was unlocked and openly accessible during the 2019 inspection, to have been secured with plywood.</p> <p><u>December 13 and 14, 2021</u>: D&amp;B performed a Site-wide inspection and noted the cover system to be in good condition.</p> <p><u>November 15, 2022</u>: TRC performed a site-wide inspection and noted the cover system to be in good condition.</p>	No routine maintenance or corrective measures needed at this time.
Sub-Slab Depressurization System (SSDS) Visual Inspection	<p><u>November 19 and 20, 2019</u>: D&amp;B performed a visual inspection off the off-Site residential SSDSs. D&amp;B observed the SSDS located at 40 Fernwood Avenue was not operating, a flexible coupler beneath the fan was disconnected, and the property was unoccupied. The SSDS located at 46-48 Fernwood Avenue was observed to be operating. D&amp;B attempted to gain access to both</p>	Off-Site SSDSs located at 40 Fernwood Avenue and 46-48 Fernwood Avenue should continue to be maintained under separate state-wide contract (recommend properly repairing the fitting with duct tape). SSDS visual inspection in accordance with SMP should be continued.



Summary of Site Activities, Site Monitoring, and Sampling September 2019 through September 2024		
Site Management Activity	Summary of Results	Maintenance/Corrective Measure
	<p>properties to inspect the internal SSDS components but were not able to gain access.</p> <p><u>December 15 and 16, 2020</u>: D&amp;B observed the SSDS located at 40 Fernwood Avenue to be operating, and the manometer located in the building’s basement to be exhibiting negative pressure. D&amp;B also temporarily repaired a gap observed between the flexible coupling and piping with duct tape. The SSDS located at 46-48 Fernwood Avenue was also observed to be operating. D&amp;B attempted to gain access to 46-48 Fernwood Avenue but were not able to gain access.</p> <p><u>December 13 and 14, 2021</u>: D&amp;B observed the SSDS located at 40 Fernwood Avenue to be operating, and the manometer located in the building’s basement to be exhibiting a negative pressure. D&amp;B also noted the duct tape previously used to repair a gap observed between the flexible coupling and piping was still present. The SSDS located at 46-48 Fernwood Avenue was observed to be operating. D&amp;B attempted to gain access to 46-48 Fernwood Avenue but were not able to gain access.</p> <p><u>November 15, 2022</u>: TRC observed the SSDSs located at 40 Fernwood Avenue and 46-48 Fernwood Avenue to be operating. TRC attempted to gain access to both properties to inspect the internal SSDS components but were not able to gain access.</p>	
Groundwater Gauging and Monitoring	<p><u>November 19 and 20, 2019</u>: D&amp;B performed the annual groundwater monitoring event. The scope of the groundwater monitoring event was to collect groundwater samples from nine existing groundwater monitoring wells. D&amp;B was unable to locate four of the nine groundwater monitoring wells required to be sampled (MW-6, MW-8, MW-13, and JML-2). Based on the inability to locate the four groundwater monitoring wells, NYSDEC requested sampling of groundwater monitoring wells MW-1, MW-3, and MW-9. After gauging these groundwater monitoring wells, D&amp;B determined that groundwater monitoring well MW-3 was not able to be sampled, as it contained less than three inches of groundwater. D&amp;B collected groundwater samples and associated quality control samples from a total of seven groundwater monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-7, MW-9, and MW-10) for routine analysis by USEPA Method 8260C for Target Compound List VOCs. In addition to routine parameters, three groundwater</p>	<p>MW-4’s flush surface completion (concrete pad) was found to be cracked, unstable, and elevated approximately 2 inches above the surrounding asphalt driveway. Additionally, MW-2, MW-3, MW-5, and MW-7 were found to have a damaged casing lid and/or missing bolts. MW-2, MW-5, and MW-7 were also observed to have water in their manholes. Repairs or replacement of the casing lids and/or casing lid bolts of MW-2, MW-3, MW-5, and MW-7, and replacement of the MW-4 concrete pad are recommended.</p>



Summary of Site Activities, Site Monitoring, and Sampling September 2019 through September 2024		
Site Management Activity	Summary of Results	Maintenance/Corrective Measure
	<p>monitoring wells (MW-1, MW-2, and MW-5) were sampled for emerging contaminants (by USEPA Method 537 Modified for PFAS and USEPA Method 8270D GC/MS SIM for 1,4-dioxane). During this monitoring event, the reagent injection point in Excavation Area #1 was mistaken for groundwater monitoring well MW-1, and a sample along with a blind duplicate sample were collected from this location. It should be noted that groundwater monitoring well MW-1 was decommissioned during remedial construction activities conducted in 2011.</p> <p><u>December 15 and 16, 2020:</u> D&amp;B gauged eight groundwater monitoring wells for depth to water to evaluate potential groundwater flow direction. After gauging the wells, D&amp;B determined that groundwater monitoring well MW-1 was not able to be sampled, as it was dry. It should be noted that groundwater monitoring well MW-1 was decommissioned during remedial construction activities conducted in 2011.; therefore, it is assumed that D&amp;B gauged the reagent injection point in Excavation Area #1. D&amp;B collected groundwater samples and associated quality control samples from seven wells (MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10) for routine analysis by USEPA Method 8260C for TCL VOCs. D&amp;B utilized a magnetic locator to attempt to locate the four other groundwater monitoring wells which were not located in 2019. These four wells could not be located with the aid of the magnetic locator.</p> <p><u>December 13 and 14, 2021:</u> D&amp;B gauged seven wells for depth to water to evaluate potential groundwater flow direction. After gauging the wells, D&amp;B collected groundwater samples and associated quality control samples from seven wells (MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10) for routine analysis by USEPA Method 8260C for TCL VOCs. In addition to routine parameters, one groundwater monitoring well (MW-2) was sampled for the emerging contaminant 1,4-dioxane for analysis by USEPA Method 8270 SIM.</p> <p><u>November 15, 2022:</u> TRC gauged seven groundwater monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10) for depth to water to evaluate potential groundwater flow direction. After gauging these wells, TRC collected groundwater samples and associated quality control samples from each of these wells for routine analysis by USEPA Method 8260C for TCL VOCs</p>	



Summary of Site Activities, Site Monitoring, and Sampling September 2019 through September 2024		
Site Management Activity	Summary of Results	Maintenance/Corrective Measure
	+ Tentative Identified Compounds (TICs). In addition to routine parameters, one well (MW-2) was sampled for the emerging contaminant 1,4-dioxane for analysis by USEPA Method 8270 SIM for.	

### 3.2 Groundwater Monitoring Summary

#### 3.2.1 Groundwater Gauging

On November 19, 2019, December 15, 2020, and December 13, 2021, prior to groundwater sample collection on each date, D&B gauged eight (only seven wells in 2021) groundwater monitoring wells for depth to groundwater to evaluate potential groundwater flow direction. On November 15, 2022, prior to groundwater sample collection, TRC gauged seven groundwater monitoring wells for depth to groundwater to evaluate potential groundwater flow direction. The Site groundwater monitoring wells are all screened in the overburden hydrogeologic unit. The groundwater monitoring well construction details are summarized in **Table 1**. Groundwater surface elevations for the groundwater monitoring wells, the inferred groundwater surface elevation contours, and the inferred groundwater flow directions are presented on **Figures 3, Figure 4, Figure 5, and Figure 6**. The groundwater gauging and elevation measurements for each gauging event are presented on **Table 2**. A summary of the Site hydrogeologic information for each event is presented below:

Site Hydrogeologic Summary September 2019 through September 2024				
Date of Gauging Event	Number of Groundwater Monitoring Wells Gauged	Overburden Groundwater Elevation Range		Inferred On-site Groundwater Flow Direction
		Lowest (feet Above Mean Sea Level)	Highest (feet Above Mean Sea Level)	
November 19, 2019	8*	474.97 (MW-5)	476.49 (MW-10)**	Southwest
December 15, 2020	8*	474.18 (MW-3)	476.34 (MW-9)	Southwest
December 13, 2021	7	474.67 (MW-4)	477.08 (MW-7)	Southwest
November 15, 2022	7	473.94 (MW-3)	476.25 (MW-9)	Southwest

Notes:

\* – Excavation Area #1 reagent injection point was mistakenly identified as groundwater monitoring well MW-1 as part of the 2019 and 2020 sampling events. A depth to water measurements was recorded, and a sample was collected from this injection point in 2019. Note groundwater monitoring MW-1 was abandoned as part of remedial actions in 2011.

\*\* - Excavation Area #1 reagent injection point was not used because it is located in an excavation area and MW-3 was not used because measurements were inaccurately performed.



### 3.2.2 Groundwater Sampling

Four groundwater sampling events were performed during this reporting period utilizing standard low-flow sampling techniques. These events occurred in November 2019 (D&B), December 2020 (D&B), December 2021 (D&B), and November 2022 (TRC). The associated groundwater sampling logs can be found in **Appendix E**.

In November 2019, D&B was unable to locate four of the nine monitoring wells required to be sampled (MW-6, MW-8, MW-13, and JML-2). Based on the inability to locate these wells, NYSDEC requested the sampling of groundwater monitoring wells MW-1, MW-3, and MW-9. After gauging the wells, D&B determined that groundwater monitoring well MW-3 was not able to be sampled, as it contained less than three inches of groundwater. Following the completion of the well gauging, D&B collected groundwater samples from groundwater monitoring wells they denoted as MW-1, MW-2, MW-4, MW-5, MW-7, MW-9, and MW-10. However, D&B mistook the injection point in Excavation Area #1 for groundwater monitoring well MW-1, and collected a sample and blind duplicate sample from this location for analysis. It should be noted groundwater monitoring well MW-1 was decommissioned during remedial construction activities conducted in 2011. The sample (and duplicate sample) from this injection point was submitted to Eurofins for the routine laboratory analysis of TCL VOC via USEPA Method 8260C along with the samples collected from each of the other six groundwater monitoring wells and associated Quality Assurance/Quality Control (QA/QC) samples. Additionally, the groundwater samples collected from the injection point in Excavation Area #1 (recorded by D&B as MW-1) and groundwater monitoring wells MW-2 and MW-5 were also submitted for non-routine (i.e., not required by the 2014 SMP) laboratory analysis of the emerging contaminants PFAS and 1,4-dioxane via USEPA Method 537 (modified) and USEPA Method 8270D GC/MS SIM, respectively. Purge water was disposed of by discharging onto the ground in unpaved areas.

In 2020, D&B collected and submitted groundwater samples from groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10, along with the associated QA/QC samples, to Eurofins for the routine laboratory analysis of TCL VOCs via USEPA Method 8260C. Purge water from groundwater monitoring well MW-3 was treated using a portable granular activated carbon unit prior to discharging it onto the ground in unpaved areas. The purge water from the remaining wells was disposed of by discharging onto the ground in unpaved areas untreated.

In 2021, D&B collected and submitted groundwater samples from groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10, along with the associated QA/QC samples, to Eurofins for the routine laboratory analysis of TCL VOCs via USEPA Method 8260C. Additionally, in accordance with the August 2021 SMP Revision 1, the groundwater sample collected from groundwater monitoring well MW-2 was analyzed for 1,4-dioxane via USEPA Method 8270 SIM.. Purge water was disposed of by discharging onto the ground in unpaved areas.

In 2022, TRC collected and submitted groundwater samples from groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10, along with associated QA/QC samples, to Con-Test/Pace Analytical Laboratories for routine laboratory analysis of TCL VOCs via USEPA Method 8260C. Additionally, in accordance with the August 2021 SMP Revision 1, the groundwater sample collected from groundwater monitoring well MW-2 was analyzed for 1,4-dioxane via USEPA Method 8270 SIM. Purge water was disposed of by discharging onto the ground in unpaved areas.

A summary of the groundwater sampling information and pertinent well details for each well are presented as follows:



Summary of Groundwater Monitoring Activities September 2019 to September 2024							
Monitoring Well Details <sup>1</sup>		Groundwater Sampling Event					
Well Identification	Screen Zone (feet below ground surface)	Depth to Water (feet below the top of riser)				Analytes	
		2019	2020	2021	2020	2019 & 2020	2021 & 2022
Area #1 Injection Point <sup>2</sup>	Information not available	5.29	Dry	Not measured	Not measured	NA <sup>3 and 4</sup>	NA
MW-2	14.3 to 24.3	6.69	7.54	6.67	7.29	VOCs <sup>4</sup>	VOCs and 1,4-dioxane
MW-3	7.3 to 16.9	9.12	11.79	11.19	12.03	VOCs	VOCs
MW-4	6.0 to 16.0	10.43	11.80	11.50	11.11	VOCs	VOCs
MW-5	7.1 to 16.8	7.90	8.67	7.46	8.33	VOCs <sup>4</sup>	VOCs
MW-7	10.0 to 20.0	9.18	9.70	8.48	10.31	VOCs	VOCs
MW-9	12.0 to 22.0	9.82	9.71	9.71	9.80	VOCs	VOCs
MW-10	10.0 to 20.4	9.86	10.7	10.09	10.48	VOCs	VOCs

**Notes:**

- 1 Groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10 are overburden wells.
- 2 Excavation Area #1 reagent injection point was mistakenly identified as MW-1 as part of the 2019 and 2020 sampling events. Depth to water was gauged and a sample was collected from this injection point in 2019. This injection point was then re-gauged in 2020. Note MW-1 was abandoned as part of remedial actions in 2011.
- 3 In 2019, Excavation Area #1 reagent injection point was sampled for VOCs and 1,4-dioxane.
- 4 In 2019, PFAS was sampled for at Excavation Area #1 reagent injection point, MW-2, and MW-5.

Additional groundwater monitoring well construction details are presented in **Table 1**.

### 3.2.3 Groundwater Analytical Results

Groundwater analytical data for the groundwater sampling events discussed above in **Section 3.2.3** are presented in **Tables 3** and **Table 4**. Detected compounds exceeding their corresponding NYSDEC Class GA Value for each monitoring well are identified on **Figures 3, Figure 4, Figure 5, and Figure 6**. The Data Usability Summary Reports (DUSRs) for each sampling event can be found in **Appendix F**. Concentration trend line graphs for monitoring wells containing COCs at concentrations consistently exceeding Class GA Values are provided in **Appendix G**.

A summary of the compounds that exceeded NYSDEC Class GA Values is provided below:



Summary of Groundwater Analytical Results – VOCs, 1,4-Dioxane, PFAS				
Constituent	Class GA Value*	Concentration Range	Location with Highest Concentration	Frequency Exceeding SCG
<b>November 2019</b>				
<b>VOCs (results in µg/L)</b>				
Benzene	1	ND – 6.3 J	MW-2	2 of 7
Chloroethane	5	ND – 18	MW-2	1 of 7
1,1-Dichloroethane	5	ND – 8.0 J	Area #1 Injection Point <sup>+</sup>	1 of 7
cis-1,2-Dichloroethene	5	ND – 22	MW-5	2 of 7
Methylene chloride	5	ND – 7.7 J	Area #1 Injection Point <sup>+</sup>	1 of 7
Trichloroethene	5	ND – 18	MW-5	2 of 7
<b>SVOCs (results in µg/L)</b>				
1,4-Dioxane	0.35	0.13 J – 22 J	MW-2	1 of 3
<b>PFAS (results in ng/L)</b>				
Perfluorooctanoic acid (PFOA)	6.7	3.0 – 40	Area #1 Injection Point <sup>+</sup>	1 of 3
Perfluorooctane sulfonic acid (PFOS)	2.7	ND – 12	Area #1 Injection Point <sup>+</sup>	1 of 3
<b>December 2020</b>				
<b>VOCs (results in µg/L)</b>				
Benzene	1	ND – 9.9	MW-2	1 of 7
Chloroethane	5	ND – 34	MW-2	1 of 7
1,1-Dichloroethane	5	ND – 5.9	MW-2	1 of 7
cis-1,2-Dichloroethene	5	ND – 21	MW-5	1 of 7
Trichloroethene	5	ND – 13	MW-5	1 of 7
Vinyl chloride	2	ND – 6.2	MW-10	2 of 7
<b>December 2021</b>				
<b>VOCs (results in µg/L)</b>				
cis-1,2-Dichloroethene	5	ND – 15 J	MW-5	1 of 7
Trichloroethene	5	ND – 14 J	MW-5	1 of 7
<b>SVOCs (results in µg/L)</b>				
1,4-Dioxane	0.35	8.9	MW-2	1 of 1
<b>November 2021</b>				
<b>VOCs (results in µg/L)</b>				
Benzene	1	ND – 36	MW-2	1 of 7
Chloroethane	5	ND – 110	MW-2	1 of 7
1,1-Dichloroethane	5	ND – 52	MW-2	1 of 7
cis-1,2-Dichloroethene	5	ND – 160	MW-2	3 of 7
trans-1,2-Dichloroethane	5	ND – 88	MW-2	1 of 7
Trichloroethene	5	ND – 9.0 J	MW-5	1 of 7
Vinyl chloride	2	ND – 54 J	MW-2	1 of 7
<b>SVOCs (results in µg/L)</b>				
1,4-Dioxane	0.35	25	MW-2	1 of 1

**Notes:**

ND – Not detected.  
J – Estimated value  
µg/L – Micrograms per liter  
ng/L – Nanograms per liter

+ - Excavation Area #1 reagent injection point was mistakenly identified as MW-1 as part of the 2019 and 2020 sampling events. Depth to water was gauged and a sample was collected from this injection point in 2019. This injection point was then re-gauged in 2020. Note MW-1 was abandoned as part of remedial actions in 2011.



#### 4.0 Cost Summary

The total estimated cost of SMP activities for the Site during this reporting period, since TRC took over such activities from D&B in April 2022 is approximately \$17,051. These activities included project management/administration tasks, one annual Site-wide inspection, and one groundwater monitoring event. The total cost includes all associated labor costs and expenses expended from April 30, 2022, through September 30, 2024. A summary of these costs is presented below:

A summary of the 2022 through 2024 Site management costs is presented below:

Summary of Site Management Costs April 2022 through September 2024		
Cost Item	Amount Expended	Percent of Total Cost (Approximate)
<b>Engineering Support Labor Costs</b>		
TRC	\$15,975	94
<b>Expenses</b>		
TRC	\$781	4
<b>Subcontractors Costs</b>	\$295	2
<b>Total Cost</b>	<b>\$ 17,051</b>	100

The following provides a review of each cost item:

- Engineering support includes labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.); one site inspection; one groundwater sampling event; and reporting (i.e., one Site inspection report, DUSRs, and PRR).
- Subcontractors include data validation service costs associated with the November 2022 groundwater sampling event.
- Expense costs include travel, equipment, and supplies in support of the Site-wide inspection, SSDS visual inspection, and groundwater sampling event.



## 5.0 Conclusions and Recommendations

### 5.1 Conclusions

- The SMP was adhered to for the reporting period September 30, 2019 through September 30, 2024.
- Site and groundwater use are consistent with the restrictions set forth in the SMP.
- The ICs operated as intended during this reporting period.
- The remedy continued to be protective of human health and the environment during this reporting period.
- ECs operated as intended during this reporting period, with the exception of one off-Site SSDS, located at 40 Fernwood Avenue, which appeared to be not operational during a visual inspection performed in November 2019, but the building appeared to be unoccupied. However, during the next inspection in December 2020, the SSDS at 40 Fernwood Avenue was operating again.
- Based on the groundwater elevations measured during the November 2019, December 2020, December 2021, and November 2022 sampling events, the on-site groundwater flow in the overburden hydrogeologic unit is to the southwest. There appears to be a groundwater ridge running from southeast to northwest through MW-7 with a parallel valley running through MW-3. Groundwater flow observations are generally consistent with historical observations.
- Historical Site COCs in groundwater include TCE, benzene, toluene, ethylbenzene, and xylenes compounds, 1,2-DCE, 1,1-DCA, 1,1,1-TCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride. Based on the available analytical data (**Tables 3 and 4**) collected during this reporting period and information presented in **Appendix G**, the following conclusions are made regarding the detected concentrations of these groundwater contaminants:
  - Groundwater concentrations of benzene, chloroethane, 1,1-DCA, cis-1,2-DCE, trans-1,2-DCE, methylene chloride, TCE, PCE, and vinyl chloride exceeded NYSDEC Class GA Values at one or more locations during this reporting period. Additionally, 1,4-dioxane, PFOA, and PFOS were detected above NYSDEC Class GA Values during this reporting period.
  - The November 2022 analytical results at groundwater monitoring well MW-2 contain multiple chlorinated VOCs (CVOCs) and benzene in groundwater at higher concentrations than previously detected in November 2019, December 2020, and December 2021.
  - 1,1-DCE and PCE are historic Site COC but were not detected above the NYSDOH SCG during this reporting period. PCE was not detected in any of the groundwater samples collected during this reporting period. This suggests that the granular EHC® reagent incorporated into backfill during remedial action and injected into excavation areas during post-remedial activities is promoting CVOC degradation.
- The remediation goal to *eliminate or reduce to the extent practical exposures of persons at or around the Site to chlorinated solvents and petroleum compounds in subsurface soil, groundwater, and indoor air* appears to have been achieved with the aid of the off-site SSDSs, site cover system, and site groundwater use restrictions imposed by the Environmental Notice.
- The remediation goal to *prevent exposure of persons at or around the Site to PCBs in concrete floors of the Site building* has been achieved.



- The remediation goal to *prevent the release of contaminants from soil into groundwater that may create exceedances of groundwater quality standards* appears to have been partially achieved through remedial action and subsequent post-remedial activities. Low levels of COCs in groundwater are present; however, COC concentrations have generally decreased, and CVOC concentrations appear to be degrading.
- The remediation goal to *prevent the release of contaminants from groundwater and subsurface soil in the parking area and under buildings, into indoor air and ambient air through soil vapor intrusion* appears to be achieved with the aid of the off-site SSDSs, and site cover system.
- The remediation goal to *achieve NYSDEC groundwater quality standards to the extent practicable* has not been achieved.

## 5.2 Recommendations

- Revise the SMP requirement for annual site-wide cover systems inspections, and groundwater monitoring to every five quarters (approximately 15 months).
- Based on the results of the groundwater sampling documented in **Section 3.2**, TRC recommends no further collection of groundwater samples from groundwater monitoring wells MW-4 and MW-7. These wells should remain listed for water level monitoring because they are important for estimating the groundwater flow pattern.
- Repairing or replacing casing lids and/or casing lid bolts of groundwater monitoring wells MW-2, MW-3, MW-4, MW-7, and MW-5. As well as replacing the surface completion at groundwater monitoring well MW-4.
- The off-Site SSDSs located at 40 Fernwood Avenue and 46-48 Fernwood Avenue should continue to be maintained as required by the SMP. (The duct-taped Fernco® fitting at the 40 Fernwood Avenue SSDS be repaired properly.) Additionally, the vegetation between the SSDS piping and the foundation at 40 Fernwood Avenue should be removed. The repairs and vegetation removal should be coordinated and approved by the owner of 40 Fernwood Avenue prior to completing these activities.
- Exterior inspections of the off-site residential SSDSs shall be conducted at least annually, and perform comprehensive inspections at least every five years. Exterior inspections shall include confirming that the fan is running, determining whether there is damage to the stack or other exterior system components, and identifying any structural changes, such as additions to the structure. Comprehensive inspections shall include all activities required in the exterior inspection, as well as an interior inspection. The interior inspection shall involve confirming a pressure differential on the manometer, inspecting the interior components for damage, recording vacuum readings from sub-slab vacuum monitoring points (if installed), and inspecting the basement area for cracks in the basement floors and walls that may have developed since the SSDS was installed.
- The SMP should be revised to reflect the above changes/modifications, if such changes are acceptable to the NYSDEC. The revisions to the 2021 SMP should be completed by adding an errata sheet before the cover page listing the changes to the SMP. If changes to the annual site-wide cover system inspections are approved, that would change pages ES-2 and 4-2 of the SMP. If changes to remove MW-4 and MW-7 from the sampling plan are approved, that would change pages 4-4 of the SMP. If changes to the SSDS inspections are approved, that would change pages ES-2, 4-3, 4-4, 5-1, and 5-3 of the SMP.



## 6.0 Green and Sustainable Remediation Metrics

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Green and sustainable remediation metrics implemented during this reporting period included utilizing local staff for site visits, sampling events, and visiting multiple sites under a single mobilization to limit travel (reducing gas consumption). Generally, staff located between approximately 50 and 100 miles from the Site were utilized. Approximately 2,570 miles were travelled during this reporting period by Standby Engineers. Site emissions are limited to VOCs from the SSDS which is operated without vapor treatment. Although full-time operation of the off-site SSDSs is necessary to protect the health of site occupants, associated emission rates are not calculated and no emission reduction program has been implemented, since the management of these systems is covered under a separate state-wide contract. A summary of the green remediation metrics is included in **Appendix A**.



## 7.0 Certification of Engineering and Institutional Controls

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

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the NYSDEC;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control;
- 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;
- If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the site is compliant with the deed restriction;
- The engineering control systems are performing as designed and are effective;
- 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 in this report is accurate and complete.

I certify that all information and statements in this certification form 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, Allen Zgaljardic, of TRC Engineers, Inc., am certifying as NYSDEC’s Designated Site Representative for the Site. I have been authorized and designated by all site owners/remedial parties to sign this certification for the site.



I Allen Zgaljardic, certify that I am currently a NYS registered professional engineer 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 DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

**TRC Engineers, Inc.**

Prepared By: *Brock Greene*  
Brock Greene  
Project Manager

Reviewed By: *Allen Zgaljardic*  
Allen Zgaljardic, P.E.  
Environmental Engineer



## 8.0 Future Site Activities

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Based on the recommendations discussed in **Section 5.0**, the following Site management activities shall be completed during the next PRR reporting period (October 2024 to September 2029):

- Site inspections – Annually (next scheduled: fourth quarter of 2024)
- SSDS visual inspections – Annually (next scheduled: fourth quarter of 2024)
- SSDS comprehensive inspection – Every five years (next scheduled: fourth quarter of 2025)
- Groundwater sampling – Annually (next scheduled: fourth quarter of 2024)
- PRR – Every five years (next scheduled: October 2029)



**FIGURES**



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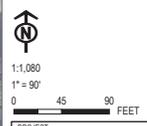
**LEGEND**

- APPROXIMATE SITE BOUNDARY
- OFF-SITE SSSDs INSTALLED
- + EXISTING GROUNDWATER MONITORING WELL
- + HISTORICAL GROUNDWATER MONITORING WELL
- REAGENT INJECTION POINT

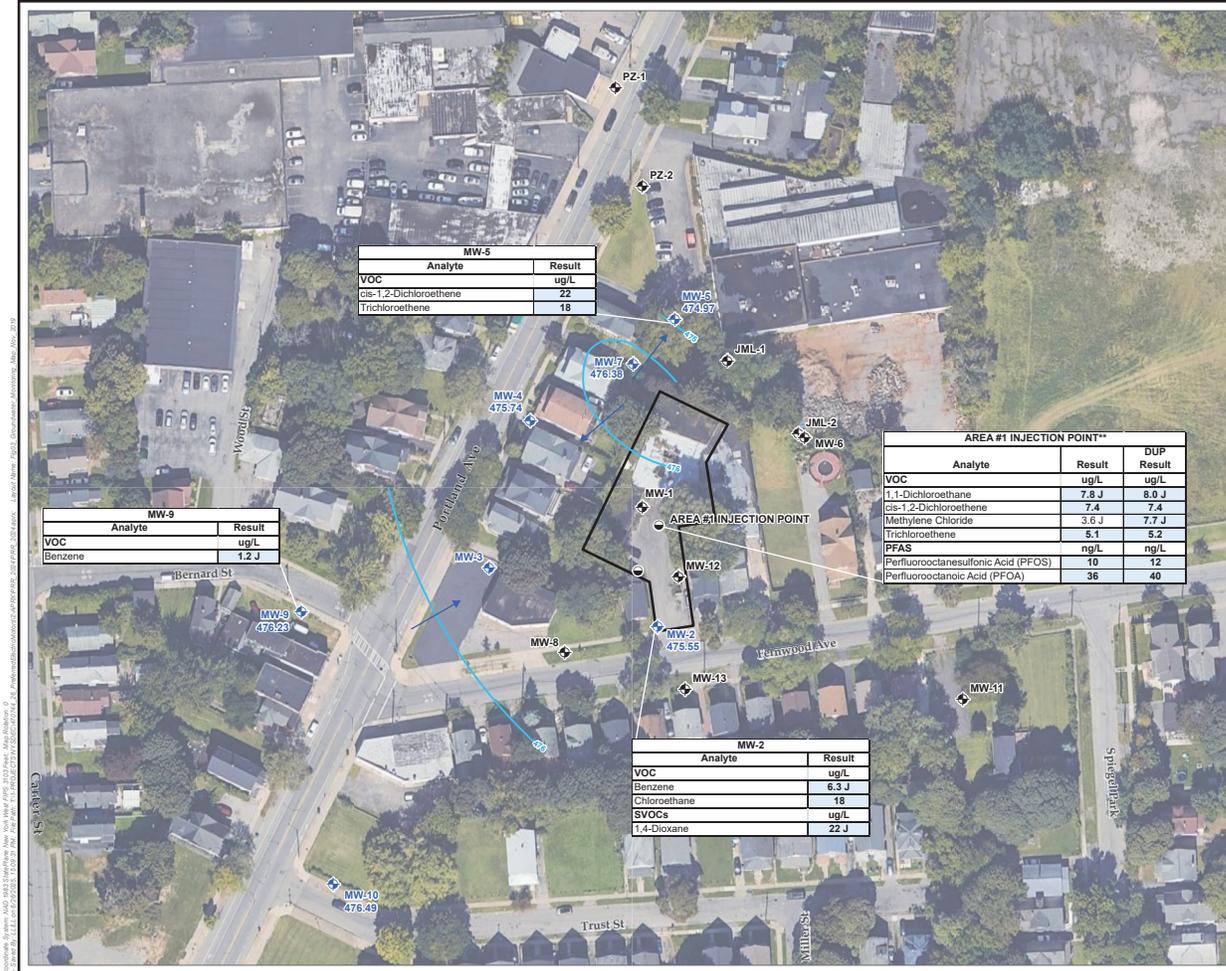
**NOTES:**

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. HISTORICAL MONITORING WELLS HAVE NOT BEEN OBSERVED DURING SITE VISITS SINCE 2012 OR EARLIER. AVAILABLE PROJECT RECORDS DO NOT IDENTIFY THAT THESE WELLS HAVE BEEN DECOMMISSIONED, EXCEPT FOR MW-1.

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED AUGUST, 2023  
DATA SOURCES: TRC



PROJECT NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PREFERRED ELECTRIC MOTORS, INC. - SITE NO. 828106 43 FERNWOOD AVENUE ROCHESTER, NEW YORK 14621	
<b>TITLE:</b> <b>SITE LAYOUT MAP</b>	
DRAWN BY: L. LILL CHECKED BY: E. STOBBE APPROVED BY: B. GREENE DATE: JUNE 2025	PROJ. NO.: 470744 TASK 27  <b>FIGURE 2</b>  3 CORPORATE DRIVE SUITE 202 CLIFTON PARK, NY 12065 PHONE: 518.348.1190 FILE: PR8_2024.dwg



MW-5	
Analyte	Result
VOC	ug/L
cis-1,2-Dichloroethene	22
Trichloroethene	18

MW-9	
Analyte	Result
VOC	ug/L
Benzene	1.2 J

AREA #1 INJECTION POINT**			
Analyte	Result	DUP	Result
VOC	ug/L	ug/L	ug/L
1,1-Dichloroethene	7.4 J	7.4	8.0 J
cis-1,2-Dichloroethene	7.4	7.4	7.4
Methylene Chloride	3.6 J	3.6	7.7 J
Trichloroethene	5.1	5.1	5.2
PFAS	ng/L	ng/L	ng/L
Perfluorooctanesulfonic Acid (PFOS)	10	10	12
Perfluorooctanoic Acid (PFOA)	36	36	40

MW-2	
Analyte	Result
VOC	ug/L
Benzene	6.3 J
Chloroethane	18
SVOCS	ug/L
1,4-Dioxane	22 J

**LEGEND**

- APPROXIMATE SITE BOUNDARY
- INFERRED GROUNDWATER SURFACE ELEVATION CONTOUR (1-FOOT)
- INFERRED GROUNDWATER FLOW DIRECTION
- EXISTING GROUNDWATER MONITORING WELL
- HISTORICAL GROUNDWATER MONITORING WELL
- REAGENT INJECTION POINT

**BOLDED AND HIGHLIGHTED RESULTS EXCEED CLASS GA VALUE**

Analyte	NYSDEC Guidance Value
<b>VOC</b>	<b>ug/L</b>
Benzene	1
Chloroethane	5
1,1-Dichloroethene	5
cis-1,2-Dichloroethene	5
trans-1,2-Dichloroethene	5
Methylene Chloride	5
Trichloroethene	5
Vinyl Chloride	2
<b>SVOCS</b>	<b>ug/L</b>
1,4-Dioxane	0.35*
PFAS	ng/L
Perfluorooctane sulfonic acid (PFOS)	2.7*
Perfluorooctanoic acid (PFOA)	6.7**

- NOTES:**
- LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
  - HISTORICAL MONITORING WELLS HAVE NOT BEEN OBSERVED DURING SITE VISITS SINCE 2012 OR EARLIER. AVAILABLE PROJECT RECORDS DO NOT IDENTIFY THAT THESE WELLS HAVE BEEN DECOMMISSIONED, EXCEPT FOR MW-1.
  - POTENTIOMETRIC SURFACE ELEVATIONS WERE COLLECTED ON NOVEMBER 19, 2019.
  - THE GROUNDWATER MEASUREMENT FOR AREA #1 INJECTION POINT WAS NOT USED IN THE GENERATION OF GROUNDWATER SURFACE ELEVATION CONTOURS.
  - MW-3 DEPTH TO BOTTOM RECORDED ON NOVEMBER 19, 2019 WAS INCONSISTENT WITH CONSTRUCTION DEPTH. ADDITIONALLY, LESS THAN 1 INCHES OF WATER WERE RECORDED. THEREFORE, IT IS BELIEVED GAUGING WAS INCORRECTLY PERFORMED, AND MEASUREMENT FROM MW-3 WAS NOT USED IN THE GENERATION OF GROUNDWATER SURFACE ELEVATION CONTOURS.

**ACRONYMS:**  
 ug/L: MICROGRAMS PER LITER  
 ug/L: MICROGRAMS PER LITER  
 VOC: VOLATILE ORGANIC COMPOUNDS  
 PFAS: PER- AND POLYFLUOROALKYL SUBSTANCES  
 DUP: BLIND DUPLICATE SAMPLE  
 NYSDEC GUIDANCE VALUES: NYSD'S AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS A WATER, JUNE 1998 WITH THE APRIL 2000 ADDENDUM  
 \*: GUIDELINES FOR SAMPLING AND ANALYSIS OF PFAS IN NEW YORK STATE'S REMEDIAL PROGRAMS, APRIL 2003  
 \*\*: THE REAGENT INJECTION POINT IN EXCAVATION AREA #1 HAS METSTAN FOR MW-1 AND A SAMPLE AND BLIND DUPLICATE WERE COLLECTED FROM THIS LOCATION. MW-1 WAS ABANDONED AS PART OF THE REMEDIAL ACTION IN 2011.  
 BASE MAP: GOOGLE EARTH SERVICE LAYER DATED AUGUST, 2023  
 DATA SOURCES: TRC



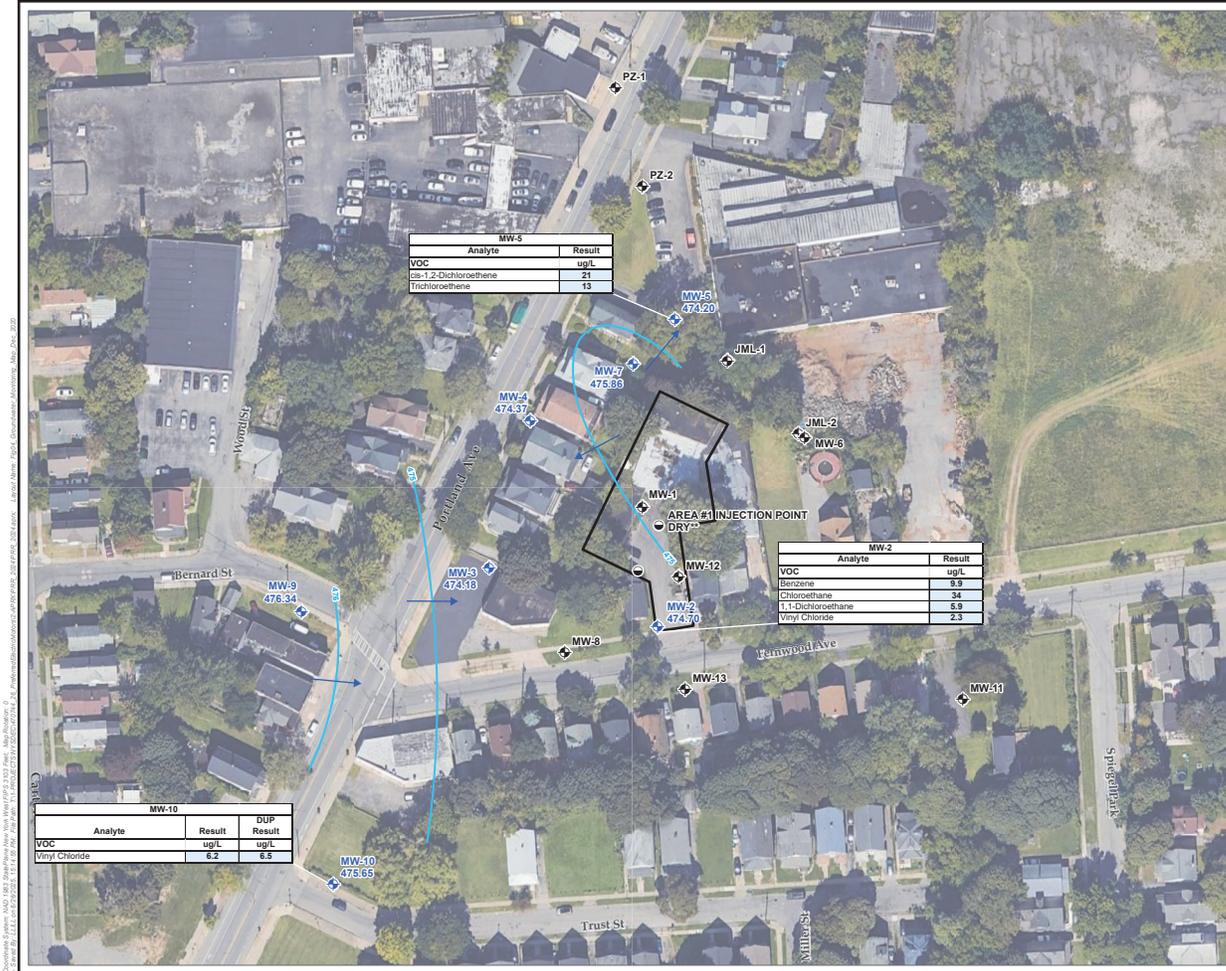
**PROJECT:**  
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 PREFERRED ELECTRIC MOTORS, INC. - SITE NO. 228106  
 47 FERNWOOD AVENUE  
 ROCHESTER, NEW YORK 14621

**TITLE:**  
 GROUNDWATER MONITORING MAP  
 NOVEMBER 2019

**DRAWN BY:** L. LILL    **PROJ. NO.:** 470744 TASK 27  
**CHECKED BY:** E. STOBBE  
**APPROVED BY:** B. GREENE    **FIGURE 3**  
**DATE:** JUNE 2025

**TRC**    3 CORPORATE DRIVE  
 SUITE 202  
 CLIFTON PARK, NY 12065  
 PHONE: 518.348.1190  
 FILE: PRR\_2024\_0393

Coordinates: 78.181111, 43.150222  
 Map Scale: 1:1,080  
 Date: 11/19/2019  
 Project: PRR\_2024\_0393  
 Drawing: GROUNDWATER MONITORING MAP  
 Author: L. LILL  
 Date: 11/19/2019



- LEGEND**
- APPROXIMATE SITE BOUNDARY
  - INFERRED GROUNDWATER SURFACE ELEVATION CONTOUR (1-FOOT)
  - INFERRED GROUNDWATER FLOW DIRECTION
  - ⊕ EXISTING GROUNDWATER MONITORING WELL
  - ⊕ HISTORICAL GROUNDWATER MONITORING WELL
  - REAGENT INJECTION POINT

BOLDED AND HIGHLIGHTED RESULTS EXCEED CLASS GA VALUE	
Analyte	NYSDEC Guidance Value
<b>VOC</b>	
Benzene	1
Chloroethane	5
1,1-Dichloroethane	5
cis-1,2-Dichloroethane	5
trans-1,2-Dichloroethane	5
Methylene Chloride	5
Trichloroethane	5
Vinyl Chloride	2
<b>SVOC</b>	
1,4-Dioxane	0.35*
<b>PFAS</b>	
Perfluorooctane sulfonic acid (PFOS)	2.7*
Perfluorotanoic acid (PFOA)	6.7*

- NOTES:**
- LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
  - HISTORICAL MONITORING WELLS HAVE NOT BEEN OBSERVED DURING SITE VISITS SINCE 2012 OR EARLIER. AVAILABLE PROJECT RECORDS DO NOT IDENTIFY THAT THESE WELLS HAVE BEEN DECOMMISSIONED, EXCEPT FOR MW-1.
  - POTENTIOMETRIC SURFACE ELEVATIONS WERE COLLECTED ON DECEMBER 15, 2020.
  - THE GROUNDWATER MEASUREMENT FOR AREA #1 INJECTION POINT WAS NOT USED IN THE GENERATION OF GROUNDWATER SURFACE ELEVATION CONTOURS. AREA #1 INJECTION POINT WAS DRY DURING GAUGING EVENT ON DECEMBER 15, 2020.

**ACRONYMS**  
 ug/L - MICROGRAMS PER LITER  
 ng/L - NANOGRAMS PER LITER  
 VOC - VOLATILE ORGANIC COMPOUNDS  
 PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES  
 DUP - DUPLICATE SAMPLE  
 NYSDEC GUIDANCE VALUES - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER, JUNE 1998 WITH THE APRIL 2000 ADDENDUM  
 \* - GUIDELINES FOR SAMPLING AND ANALYSIS OF PFAS NYSDEC PART 375 REMEDIAL PROGRAMS, APRIL 2023  
 \*\* - THE REAGENT INJECTION POINT IN EXCAVATION AREA #1 WAS MISTAKEN FOR MW-1 AND GAUGING WAS PERFORMED AT THIS LOCATION. MW-1 WAS ABANDONED AS PART OF THE REMEDIAL ACTION IN 2011.

BASE MAP: GOOGLE EARTH SERVICE LAYER DATED AUGUST, 2023  
 DATA SOURCES: TRC  
 1:1,080  
 1" = 90'  
 0 45 90 FEET

PROJECT  
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 PREFERRED ELECTRIC MOTORS, INC. - SITE NO. 828106  
 47 FERNWOOD AVENUE  
 ROCHESTER, NEW YORK 14621

TITLE  
**GROUNDWATER MONITORING MAP  
 DECEMBER 2020**

DRAWN BY: L. LILL PROJ. NO: 470744 TASK 27  
 CHECKED BY: E. STOBBE  
 APPROVED BY: B. GREENE  
 DATE: JUNE 2025

**FIGURE 4**

**TRC**  
 3 CORPORATE DRIVE  
 SUITE 202  
 CLIFTON PARK, NY 12065  
 PHONE: 518.348.1190  
 FILE: PRR\_2024.aprx

MW-5	
Analyte	Result
<b>VOC</b>	
cis-1,2-Dichloroethane	21
Trichloroethane	13

MW-2	
Analyte	Result
<b>VOC</b>	
Benzene	6.9
Chloroethane	34
1,1-Dichloroethane	5.9
Vinyl Chloride	2.3

MW-10		
Analyte	Result	DUP Result
<b>VOC</b>		
Vinyl Chloride	6.2	6.5

Groundwater - MW-5, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-50, MW-51, MW-52, MW-53, MW-54, MW-55, MW-56, MW-57, MW-58, MW-59, MW-60, MW-61, MW-62, MW-63, MW-64, MW-65, MW-66, MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-85, MW-86, MW-87, MW-88, MW-89, MW-90, MW-91, MW-92, MW-93, MW-94, MW-95, MW-96, MW-97, MW-98, MW-99, MW-100, MW-101, MW-102, MW-103, MW-104, MW-105, MW-106, MW-107, MW-108, MW-109, MW-110, MW-111, MW-112, MW-113, MW-114, MW-115, MW-116, MW-117, MW-118, MW-119, MW-120, MW-121, MW-122, MW-123, MW-124, MW-125, MW-126, MW-127, MW-128, MW-129, MW-130, MW-131, MW-132, MW-133, MW-134, MW-135, MW-136, MW-137, MW-138, MW-139, MW-140, MW-141, MW-142, 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MW-768, MW-769, MW-770, MW-771, MW-772, MW-773, MW-774, MW-775, MW-776, MW-777, MW-778, MW-779, MW-780, MW-781, MW-782, MW-783, MW-784, MW-785, MW-786, MW-787, MW-788, MW-789, MW-790, MW-791, MW-792, MW-793, MW-794, MW-795, MW-796, MW-797, MW-798, MW-799, MW-800, MW-801, MW-802, MW-803, MW-804, MW-805, MW-806, MW-807, MW-808, MW-809, MW-810, MW-811, MW-812, MW-813, MW-814, MW-815, MW-816, MW-817, MW-818, MW-819, MW-820, MW-821, MW-822, MW-823, MW-824, MW-825, MW-826, MW-827, MW-828, MW-829, MW-830, MW-831, MW-832, MW-833, MW-834, MW-835, MW-836, MW-837, MW-838, MW-839, MW-840, MW-841, MW-842, MW-843, MW-844, MW-845, MW-846, MW-847, MW-848, MW-849, MW-850, MW-851, MW-852, MW-853, MW-854, MW-855, MW-856, MW-857, MW-858, MW-859, MW-860, MW-861, MW-862, MW-863, MW-864, MW-865, MW-866, MW-867, MW-868, MW-869, MW-870, MW-871, MW-872, MW-873, MW-874, MW-875, MW-876, MW-877, MW-878, MW-879, MW-880, MW-881, MW-882, MW-883, MW-884, MW-885, MW-886, MW-887, MW-888, MW-889, MW-890, MW-891, MW-892, MW-893, MW-894, MW-895, MW-896, MW-897, MW-898, MW-899, MW-900, MW-901, MW-902, MW-903, MW-904, MW-905, MW-906, MW-907, MW-908, MW-909, MW-910, MW-911, MW-912, MW-913, MW-914, MW-915, MW-916, MW-917, MW-918, MW-919, MW-920, MW-921, MW-922, MW-923, MW-924, MW-925, MW-926, MW-927, MW-928, MW-929, MW-930, MW-931, MW-932, MW-933, MW-934, MW-935, MW-936, MW-937, MW-938, MW-939, MW-940, MW-941, MW-942, MW-943, MW-944, MW-945, MW-946, MW-947, MW-948, MW-949, MW-950, MW-951, MW-952, MW-953, MW-954, MW-955, MW-956, MW-957, MW-958, MW-959, MW-960, MW-961, MW-962, MW-963, MW-964, MW-965, MW-966, MW-967, MW-968, MW-969, MW-970, MW-971, MW-972, MW-973, MW-974, MW-975, MW-976, MW-977, MW-978, MW-979, MW-980, MW-981, MW-982, MW-983, MW-984, MW-985, MW-986, MW-987, MW-988, MW-989, MW-990, MW-991, MW-992, MW-993, MW-994, MW-995, MW-996, MW-997, MW-998, MW-999, MW-1000, MW-1001, MW-1002, MW-1003, MW-1004, MW-1005, MW-1006, MW-1007, MW-1008, MW-1009, MW-1010, MW-1011, MW-1012, MW-1013, MW-1014, MW-1015, MW-1016, MW-1017, MW-1018, MW-1019, MW-1020, MW-1021, MW-1022, MW-1023, MW-1024, MW-1025, MW-1026, MW-1027, MW-1028, MW-1029, MW-1030, MW-1031, MW-1032, MW-1033, MW-1034, MW-1035, MW-1036, MW-1037, MW-1038, MW-1039, MW-1040, MW-1041, MW-1042, MW-1043, MW-1044, MW-1045, MW-1046, MW-1047, MW-1048, MW-1049, MW-1050, MW-1051, MW-1052, MW-1053, MW-1054, MW-1055, MW-1056, MW-1057, MW-1058, MW-1059, MW-1060, MW-1061, MW-1062, MW-1063, MW-1064, MW-1065, MW-1066, MW-1067, MW-1068, MW-1069, MW-1070, MW-1071, MW-1072, MW-1073, MW-1074, MW-1075, MW-1076, MW-1077, MW-1078, MW-1079, MW-1080, MW-1081, MW-1082, MW-1083, MW-1084, MW-1085, MW-1086, MW-1087, MW-1088, MW-1089, MW-1090, MW-1091, MW-1092, MW-1093, MW-1094, MW-1095, MW-1096, MW-1097, MW-1098, MW-1099, MW-1100, MW-1101, MW-1102, MW-1103, MW-1104, MW-1105, MW-1106, MW-1107, MW-1108, MW-1109, MW-1110, MW-1111, MW-1112, MW-1113, MW-1114, MW-1115, MW-1116, MW-1117, MW-1118, MW-1119, MW-1120, MW-1121, MW-1122, MW-1123, MW-1124, MW-1125, MW-1126, MW-1127, MW-1128, MW-1129, MW-1130, MW-1131, MW-1132, MW-1133, MW-1134, MW-1135, MW-1136, MW-1137, MW-1138, MW-1139, MW-1140, MW-1141, MW-1142, MW-1143, MW-1144, MW-1145, MW-1146, MW-1147, MW-1148, MW-1149, MW-1150, MW-1151, MW-1152, MW-1153, MW-1154, MW-1155, MW-1156, MW-1157, MW-1158, MW-1159, MW-1160, MW-1161, MW-1162, MW-1163, MW-1164, MW-1165, MW-1166, MW-1167, MW-1168, MW-1169, MW-1170, MW-1171, MW-1172, MW-1173, MW-1174, MW-1175, MW-1176, MW-1177, MW-1178, MW-1179, MW-1180, MW-1181, MW-1182, MW-1183, MW-1184, MW-1185, MW-1186, MW-1187, MW-1188, MW-1189, MW-1190, MW-1191, MW-1192, MW-1193, MW-1194, MW-1195, MW-1196, MW-1197, MW-1198, MW-1199, MW-1200, MW-1201, MW-1202, MW-1203, MW-1204, MW-1205, MW-1206, MW-1207, MW-1208, MW-1209, MW-1210, MW-1211, MW-1212, MW-1213, MW-1214, MW-1215, MW-1216, MW-1217, MW-1218, MW-1219, MW-1220, MW-1221, MW-1222, MW-1223, MW-1224, MW-1225, MW-1226, MW-1227, MW-1228, MW-1229, MW-1230, MW-1231, MW-1232, MW-1233, MW-1234, MW-1235, MW-1236, MW-1237, MW-1238, MW-1239, MW-1240, MW-1241, MW-1242, MW-1243, MW-1244, MW-1245, MW-1246, MW-1247, MW-1248, MW-1249, MW-1250, MW-1251, MW-1252, MW-1253, MW-1254, MW-1255, MW-1256, MW-1257, MW-1258, MW-1259, MW-1260, MW-1261, MW-1262, MW-1263, MW-1264, MW-1265, MW-1266, MW-1267, MW-1268, MW-1269, MW-1270, MW-1271, MW-1272, MW-1273, MW-1274, MW-1275, MW-1276, MW-1277, MW-1278, MW-1279, MW-1280, MW-1281, MW-1282, MW-1283, MW-1284, MW-1285, MW-1286, MW-1287, MW-1288, MW-1289, MW-1290, MW-1291, MW-1292, MW-1293, MW-1294, MW-1295, MW-1296, MW-1297, MW-1298, MW-1299, MW-1300, MW-1301, MW-1302, MW-1303, MW-1304, MW-1305, MW-1306, MW-1307, MW-1308, MW-1309, MW-1310, MW-1311, MW-1312, MW-1313, MW-1314, MW-1315, MW-1316, MW-1317, MW-1318, MW-1319, MW-1320, MW-1321, MW-1322, MW-1323, MW-1324, MW-1325, MW-1326, MW-1327, MW-1328, MW-1329, MW-1330, MW-1331, MW-1332, MW-1333, MW-1334, MW-1335, MW-1336, MW-1337, MW-1338, MW-1339, MW-1340, MW-1341, MW-1342, MW-1343, MW-1344, MW-1345, MW-1346, MW-1347, MW-1348, MW-1349, MW-1350, MW-1351, MW-1352, MW-1353, MW-1354, MW-1355, MW-1356, MW-1357, MW-1358, MW-1359, MW-1360, MW-1361, MW-1362, MW-1363, MW-1364, MW-1365, MW-1366, MW-1367, MW-1368, MW-1369, MW-1370, MW-1371, MW-1372, MW-1373, MW-1374, MW-1375, MW-1376, MW-1377, MW-1378, MW-1379, MW-1380, MW-1381, MW-1382, MW-1383, MW-1384, MW-1385, MW-1386, MW-1387, MW-1388, MW-1389, MW-1390, MW-1391, MW-1392, MW-1393, MW-1394, MW-1395, MW-1396, MW-1397, MW-1398, MW-1399, MW-1400, MW-1401, MW-1402, MW-1403, MW-1404, MW-1405, MW-1406, MW-1407, MW-1408, MW-1409, MW-1410, MW-1411, MW-1412, MW-1413, MW-1414, MW-1415, MW-1416, MW-1417, MW-1418, MW-1419, MW-1420, MW-1421, MW-1422, MW-1423, MW-1424, MW-1425, MW-1426, MW-1427, MW-1428, MW-1429, MW-1430, MW-1431, MW-1432, MW-1433, MW-1434, MW-1435, MW-1436, MW-1437, MW-1438, MW-1439, MW-1440, MW-1441, MW-1442, MW-1443, MW-1444, MW-1445, MW-1446, MW-1447, MW-1448, MW-1449, MW-1450, MW-1451, MW-1452, MW-1453, MW-1454, MW-1455, MW-1456, MW-1457, MW-1458, MW-1459, MW-1460, MW-1461, MW-1462, MW-1463, MW-1464, MW-1465, MW-1466, MW-1467, MW-1468, MW-1469, MW-1470, MW-1471, MW-1472, MW-1473, MW-1474, MW-1475, MW-1476, MW-1477, MW-1478, MW-1479, MW-1480, MW-1481, MW-1482, MW-1483, MW-1484, MW-1485, MW-1486, MW-1487, MW-1488, MW-1489, MW-1490, MW-1491, MW-1492, MW-1493, MW-1494, MW-1495, MW-1496, MW-1497, MW-1498, MW-1499, MW-1500, MW-1501, MW-1502, MW-1503, MW-1504, MW-1505, MW-1506, MW-1507, MW-1508, MW-1509, MW-1510, MW-1511, MW-1512, MW-1513, MW-1514, MW-1515, MW-1516, MW-1517, MW-1518, MW-1519, MW-1520, MW-1521, MW-1522, MW-1523, MW-1524, MW-1525, MW-1526, MW-1527, MW-1528, MW-1529, MW-1530, MW-1531, MW-1532, MW-1533, MW-1534, MW-1535, MW-1536, MW-1537, MW-1538, MW-1539, MW-1540, MW-1541, MW-1542, MW-1543, MW-1544, MW-1545, MW-1546, MW-1547, MW-1548, MW-1549, MW-1550, MW-1551, MW-1552, MW-1553, MW-1554, MW-1555, MW-1556, MW-1557, MW-1558, MW-1559, MW-1560, MW-1561, MW-1562, MW-1563, MW-1564, MW-1565, MW-1566, MW-1567, MW-1568, MW-1569, MW-1570, MW-1571, MW-1572, MW-1573, MW-1574, MW-1575, MW-1576, MW-1577, MW-1578, MW-1579, MW-1580, MW-1581, MW-1582, MW-1583, MW-1584, MW-1585, MW-1586, MW-1587, MW-1588, MW-1589, MW







**TABLES**

**Table 1**  
**New York State Department of Environmental Conservation**  
**Preferred Electric Motors, Inc. - Site No. 828106**  
**Rochester, New York**  
**Groundwater Well Construction Details**

Well ID	Installation Date	Well Diameter (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	Screen			Elevation (feet AMSL)			
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	Top of Riser (feet AMSL)	Casing Surface (feet AMSL)	Screen	
											Top	Bottom
MW-1	4/1/2005	2	Sch. 40 PVC	20.0	Overburden	6.0	16.0	10.0	483.32	484.32	478.32	468.32
MW-2	3/30/2005	2	Sch. 40 PVC	23.8	Overburden	14.3	24.3	10.0	482.24	482.50	468.20	458.20
MW-3	3/30/2005	2	Sch. 40 PVC	16.9	Overburden	7.3	16.9	9.6	485.97	486.41	479.11	469.56
MW-4	4/4/2005	2	Sch. 40 PVC	16.0	Overburden	6.0	16.0	10.0	486.17	486.43	480.48	470.48
MW-5	3/31/2005	2	Sch. 40 PVC	16.8	Overburden	7.1	16.8	9.7	482.87	483.17	476.07	466.37
MW-6	3/31/2005	2	Sch. 40 PVC	16.5	Overburden	6.8	16.5	9.7	483.09	483.35	476.60	466.90
MW-7	9/14/2005	2	Sch. 40 PVC	20.0	Overburden	10.0	20.0	10.0	485.56	486.06	476.06	466.06
MW-8	9/13/2005	2	Sch. 40 PVC	17.0	Overburden	7.0	17.0	10.0	482.89	483.15	476.15	466.15
MW-9	9/13/2005	2	Sch. 40 PVC	22.0	Overburden	12.0	22.0	10.0	486.05	486.65	474.65	464.65
MW-10	9/13/2005	2	Sch. 40 PVC	20.4	Overburden	10.0	20.4	10.4	486.35	486.83	476.83	466.43
MW-13	Unknown	2	Sch. 40 PVC	23.0	Overburden	8.2	23.0	14.8	481.72	482.18	473.98	459.18
JML-2	Unknown	2	Sch. 40 PVC	7.1	Overburden	1.8	6.8	5.0	483.10	483.30	481.50	476.50

**Notes**

- AMSL : Above Mean Sea Level
- feet bgs : Feet Below Ground Surface
- PVC : Polyvinyl Chloride
- ID : Identification
- Sch. 40 : Schedule 40

- 1) Source: Site Management Plan (SMP) Revision 1 prepared by D&B Engineers and Architects, August 2021.
- 2) MW-1 was abandoned during 2011 Remedial Action. Monitoring wells MW-6, MW-8, MW-13, and JML-2 could not be located during gauging events within PRR reporting period. No records of well abandonment exist other than for MW-1.
- 3) Northing and Easting locations of wells are not available at time of writing of Periodic Review Report.
- 4) Casing elevation is approximately the same as the ground surface elevation.

**Table 2**  
**New York State Department of Environmental Conservation**  
**Preferred Electric Motors, Inc. - Site No. 828106**  
**Rochester, New York**  
**Summary of Depth to Water Measurements and Groundwater Elevations**

Well ID	Screened Formation	TOR Elevation* (feet AMSL)	Gauge Date	Depth to Water (feet below TOR)	Depth to Bottom (feet below TOR)	Groundwater Elev. (feet AMSL)
Area #1 Injection Point**	Overburden	483.77	11/19/2019	5.29	6.00	478.48
			12/15/2020	Dry	5.89	-
			12/13/2021		NG	
			11/15/2022		NG	
MW-2	Overburden	482.24	11/19/2019	6.69	24.57	475.55
			12/15/2020	7.54	24.39	474.70
			12/13/2021	6.67	23.75	475.57
			11/15/2022	7.29	24.57	474.95
MW-3	Overburden	485.97	11/19/2019	9.12	9.35***	476.85
			12/15/2020	11.79	16.82	474.18
			12/13/2021	11.19	17.37	474.78
			11/15/2022	12.03	16.95	473.94
MW-4	Overburden	486.17	11/19/2019	10.43	12.46	475.74
			12/15/2020	11.80	16.78	474.37
			12/13/2021	11.50	16.76	474.67
			11/15/2022	11.11	16.76	475.06
MW-5	Overburden	482.87	11/19/2019	7.90	14.20	474.97
			12/15/2020	8.67	16.50	474.20
			12/13/2021	7.46	16.03	475.41
			11/15/2022	8.33	15.85	474.54
MW-7	Overburden	485.56	11/19/2019	9.18	19.46	476.38
			12/15/2020	9.70	19.27	475.86
			12/13/2021	8.48	19.52	477.08
			11/15/2022	10.31	19.43	475.25
MW-9	Overburden	486.05	11/19/2019	9.82	21.95	476.23
			12/15/2020	9.71	21.74	476.34
			12/13/2021	9.71	21.93	476.34
			11/15/2022	9.80	21.80	476.25
MW-10	Overburden	486.35	11/19/2019	9.86	19.70	476.49
			12/15/2020	10.70	19.53	475.65
			12/13/2021	10.09	19.75	476.26
			11/15/2022	10.48	19.68	475.87

**Notes**

- Elev. : Elevation
- AMSL : Above Mean Sea Level
- ID : Identification
- TOR : Top of Riser
- Dry : No Groundwater Present at Time of Gauging Event
- NG : Not Gauged
- : Information Not Available
- \* : Source: SMP Revision 1 prepared by D&B Engineers and Architects, August 2021
- : The Reagent Injection Point in Excavation Area #1 was mistaken for MW-1 and gauged during 11/19/2019 and 12/15/2020 events.
- \*\*
- \*\*\* : MW-3 total well depth is noted on construction documents as 16.9 feet below TOR. The depth to bottom for MW-3 was recorded at 9.35 feet below TOR during 11/19/2019 gauging event, it is believed gauging was inaccurately performed.

1) Monitoring wells MW-6, MW-8, MW-13, and JML-2 could not be located during gauging events within Periodic Review Report reporting period. No records of well abandonment exist other than for MW-1. Refer to Site Management Plan Table 2-1 and 4-2 for historical gauging data.



Table 3  
New York State Department of Environmental Conservation  
Preferred Electric Motors, Inc. - Site No. R21816  
Rochester, New York  
Summary of Groundwater Analytical Results for VOCs and 1,4-Dioxane - 2019 Through 2022

Sample Location	Sample Name	MW-7				DUP-01	MW-9				MW-10			
		MW-7_112019	MW-7_20201216	MW-7_20211213	MW-7_11152022		MW-9_112019	MW-9_20201215	MW-9_20211214	MW-9_11152022	MW-10_111919	MW-10_20201215	MW-10_20211214	MW-10_11152022
Lab Sample ID**	Sample Date	480-163123-8 11/20/2019	480-179481-8 12/16/2020	480-193461-5 12/13/2021	22K2560-01 11/15/2022	Field Dup	480-163123-6 11/20/2020	480-179481-2 12/15/2020	480-193461-6 12/14/2021	22K2560-06 11/15/2022	480-163123-3 11/19/2019	480-179481-3 12/15/2020	480-179481-4 12/14/2021	22K2560-03 11/15/2022
Analyte	Unit	Class GA Values*												
<b>VOCs</b>														
Acetone	ug/L	50	10	10	10	50	10	10	10	50	10	10	10	50
Benzene	ug/L	1	1	1	1	1	1	1	1	1	1	1	1	1
Bromochloroethane	ug/L	5	NA	NA	NA	1	1	NA	NA	1	NA	NA	NA	1
Bromodichloroethane	ug/L	50	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
Bromofluoromethane	ug/L	50	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Bromomethane	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
2-Hexanone (MIBK)	ug/L	50	10	10	10	20	20	10	10	10	20	10	10	20
Carbon Disulfide	ug/L	60	1.0	1.0	1.0	5	5	1.0	1.0	1.0	5	1.0	1.0	5
Carbon Tetrachloride	ug/L	5	1.0	1.0	1.0	5	5	1.0	1.0	1.0	5	1.0	1.0	5
Chlorobenzene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Chlorodibromoethane	ug/L	20	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
Chloroethane	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Chloroform	ug/L	7	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Chloroethene	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Cyclohexane	ug/L	NS	1.0	1.0	1.0	5	5	1.0	1.0	1.0	5	1.0	1.0	5
1,2-Dibromo-4-Chloroethane (DBCP)	ug/L	0.06	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,2-Dibromoethane	ug/L	0.0006	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
1,2-Dichlorobenzene	ug/L	3	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,3-Dichlorobenzene	ug/L	3	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,4-Dichlorobenzene	ug/L	3	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Dichlorodifluoroethane (Freon 12)	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
1,1-Dichloroethane	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,2-Dichloroethane	ug/L	0.6	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,1-Dichloroethylene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
cis-1,2-Dichloroethylene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
trans-1,2-Dichloroethylene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,2-Dichloropropane	ug/L	1	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
cis-1,3-Dichloropropane	ug/L	0.4	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
trans-1,3-Dichloropropane	ug/L	0.4	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
1,4-Dioxane	ug/L	NS	NA	NA	NA	50	50	1.0	1.0	1.0	50	1.0	1.0	50
Ethyl Benzene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
2-Hexanone (MIBK)	ug/L	50	5.0	5.0	5.0	10	10	5.0	5.0	5.0	10	5.0	5.0	10
Isopropylbenzene (Cumene)	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Methyl Acetate	ug/L	NS	2.5	2.5	2.5	1	1	2.5	2.5	2.5	1	2.5	2.5	1
Methyl tert-Butyl Ether (MTBE)	ug/L	10	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Methyl Chloride	ug/L	NS	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Methylene Chloride	ug/L	5	1.0	1.0	1.0	5	5	1.0	1.0	1.0	5	1.0	1.0	5
4-Methyl-2-pentanone (MIBK)	ug/L	NS	5.0	5.0	5.0	10	10	5.0	5.0	5.0	10	5.0	5.0	10
Styrene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,1,2,2-Tetrachloroethane	ug/L	5	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
Tetrahydrofuran	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,2,3-Trichlorobenzene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,2,4-Trichlorobenzene	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,1,1-Trichloroethane	ug/L	5	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
1,1,2-Trichloroethane	ug/L	1	1.0	1.0	1.0	1	1	1.0	1.0	1.0	1	1.0	1.0	1
Trichloroethylene	ug/L	5	1.0	1.0	1.0	0.5	0.5	1.0	1.0	1.0	0.5	1.0	1.0	0.5
Trichlorofluoroethane (Freon 11)	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
1,1,2-Trichloro-1,2,2-Tetrafluoroethane (Freon 113)	ug/L	5	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Vinyl Chloride	ug/L	2	1.0	1.0	1.0	2	2	1.0	1.0	1.0	2	1.0	1.0	2
Xylenes (total)	ug/L	5	2.0	2.0	2.0	1	1	2.0	2.0	2.0	1	2.0	2.0	1
<b>SVOCs</b>														
1,4-Dioxane	ug/L	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:  
ug/L - micrograms per liter  
J - Estimated value  
NA - Sample not analyzed for the listed analyte  
NS - No NYSDDEC standards exist for this analyte  
U - Analyte was not detected at specified quantitation limit  
UD - Undetectable, reporting limit not stated  
Values in bold indicate the analyte was detected

Values in bold and Field Dup exceed the listed NYSDDEC Class GA standards.  
VOCs - Volatile Organic Compounds  
\*\*\* - The Region Injection Point in Excavation Area #1 was mistaken for MW-1 and sampled during November 2019 event. MIBK was detected during 2011 remedial action.  
\*\* - Lab Sample ID for VOCs/SVOCs analysis otherwise the Lab sample ID applies to all listed analytes.  
SVOCs - Semivolatile Organic Compounds  
\* - NYSDDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with all Addendums.  
(a) - criteria applicable to xylene (total), the sum of the xylene isomers.

**Table 4**  
**New York State Department of Environmental Conservation**  
**Preferred Electric Motors, Inc. - Site No. 828106**  
**Rochester, New York**  
**Summary of Groundwater Analytical Results for PFAS - 2019 Through 2022**

		Sample Location: <b>AREA #1 INJECTION POINT**</b>		MW-2		MW-5	
		Sample Name: MW-1_111919    DUP_111919		MW-2_111919		MW-5_111919	
		Lab Sample ID: 480-163054-1    480-163054-4		480-163054-2		480-163054-3	
		Sample Date: 11/19/2019    11/19/2019		11/19/2019		11/20/2019	
Analysis	Analyte	Unit	Guidance Value*	Field Dup			
<b>PFAS</b>							
	6:2 FTS	ng/L	NS	19 U	17 U	17 U	16 U
	8:2 FTS	ng/L	NS	19 U	17 U	17 U	16 U
	NEtFOSAA	ng/L	NS	19 U	17 U	17 U	16 U
	NMeFOSAA	ng/L	NS	19 U	17 U	17 U	16 U
	Perfluorobutanesulfonic Acid (PFBS)	ng/L	NS	<b>11</b>	<b>11</b>	1.7 U	<b>1.9</b>
	Perfluorobutanoic Acid (PFBA)	ng/L	NS	<b>36</b>	<b>37</b>	<b>7.4</b>	<b>35</b>
	Perfluorodecanesulfonic Acid (PFDS)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluorodecanoic Acid (PFDA)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluorododecanoic Acid (PFDoA)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluoroheptanoic Acid (PFHpA)	ng/L	NS	<b>34</b>	<b>36</b>	<b>1.4 J</b>	<b>1.7</b>
	Perfluorohexanesulfonic Acid (PFHxS)	ng/L	NS	<b>2.9</b>	<b>3.0</b>	1.7 U	<b>1.0 J</b>
	Perfluorohexanoic Acid (PFHxA)	ng/L	NS	<b>67</b>	<b>65</b>	<b>2.4</b>	<b>4.5</b>
	Perfluorononanoic Acid (PFNA)	ng/L	NS	<b>1.4 J</b>	<b>1.6 J</b>	<b>0.48 J</b>	<b>0.37 J</b>
	Perfluorooctane Sulfonamide (PFOSA)	ng/L	NS	9.5 U	8.3 U	8.4 U	8.2 U
	Perfluorooctanesulfonic Acid (PFOS)	ng/L	2.7	<b>10</b>	<b>12</b>	1.7 U	<b>0.92 J</b>
	Perfluorooctanoic Acid (PFOA)	ng/L	6.7	<b>36</b>	<b>40</b>	<b>3.0</b>	<b>3.3</b>
	Perfluoropentanoic Acid (PFPeA)	ng/L	NS	<b>72</b>	<b>84</b>	<b>4.0</b>	<b>4.3</b>
	Perfluorotetradecanoic Acid (PFTeA)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluorotridecanoic Acid (PFTrDA)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U
	Perfluoroundecanoic Acid (PFUnA)	ng/L	NS	1.9 U	1.7 U	1.7 U	1.6 U

**Notes:**

ng/L - nanograms per liter.

J - Estimated value.

NS - No NYSDEC Guidance Values exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

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

Values shown in bold and shaded type exceed the listed NYSDEC Class GA standards.

PFAS - Per- and Poly-fluoroalkyl Substances.

\* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with all Addendums.

\*\* - The Reagent Injection Point in Excavation Area #1 was mistaken for MW-1 and sampled during November 2019 event.

MW-1 was abandoned during 2011 remedial action.



**APPENDIX A**

## Summary of Green Remediation Metrics for Site Management

Site Name: Preferred Electric Motors, Inc. Site Code: 828106  
 Address: 42 Fernwood Ave City: Rochester  
 State: NY Zip Code: 14621 County: Monroe

### Initial Report Period (Start Date of period covered by the Initial Report submittal)

Start Date: 2013

### Current Reporting Period

Reporting Period From: September 30, 2019 To: September 30, 2024

### Contact Information

Preparer's Name: Ezra Stobbe Phone No.: 332-237-9961  
 Preparer's Affiliation: TRC Engineers, Inc.

**I. Energy Usage:** Quantify the amount of energy used directly on-Site and the portion of that derived from renewable energy sources.

	<b>Current Reporting Period</b> (approximate)	<b>Total to Date</b> (approximate)
Fuel Type 1 (e.g. natural gas (cubic feet))	Not Applicable	Unknown
Fuel Type 2 (e.g. fuel oil, propane (gallons))	Not Applicable	Unknown
Electricity (kilowatt-hours)	8,800	51,000
<b>Of that Electric usage, provide quantity:</b>		
Derived from renewable sources (e.g. solar, wind)	Unknown	Unknown
<b>Other energy sources</b> (e.g. geothermal, solar thermal (British Thermal Units))	Unknown	Unknown

*Provide a description of all energy usage reduction programs for the Site in the space provided on Page 3.*

**II. Solid Waste Generation:** Quantify the management of solid waste generated on-Site.

	<b>Current Reporting Period (tons - approximate)</b>	<b>Total to Date (tons - approximate)</b>
<b>Total waste generated on-site</b>	less than 1	1015
OM&M generated waste	less than 1	Unknown
<b>Of that total amount, provide quantity:</b>		
Transported off-site to landfills	less than 1	1015
Transported off-site to other disposal facilities	0	Unknown
Transported off-site for recycling/reuse	0	1
Reused on-site	0	Unknown

*Provide a description of any implemented waste reduction programs for the Site in the space provided on Page 3.*

**III. Transportation/Shipping:** Quantify the distances travelled for delivery of supplies and lab-supplied bottles, shipping of laboratory samples, and the removal of waste.

	<b>Current Reporting Period (miles-approximate)</b>	<b>Total to Date (miles)</b>
Standby Engineer/Contractor	2,600	Unknown
Laboratory Courier/Delivery Service (bottle and sample delivery)	Unknown	Unknown
Waste Removal/Hauling	0	Unknown

*Provide a description of all mileage reduction programs for the Site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the Site.*

**IV. Water Usage:** Quantify the volume of water used on-site from various sources.

	<b>Current Reporting Period (gallons)</b>	<b>Total to Date (gallons)</b>
Total quantity of water used on-site (not including treated water)	less than 25	Unknown
<b>Of that total amount, provide quantity:</b>		
Public potable water supply usage	less than 25	Unknown
Surface water usage	0	Unknown
On-site groundwater usage	0	Unknown
Collected or diverted storm water usage	0	Unknown

*Provide a description of any implemented water consumption reduction programs for the Site in the space provided on Page 3.*

**V. Land Use and Ecosystems:** Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	<b>Current Reporting Period (acres)</b>	<b>Total to Date (acres – approximate)</b>
Land disturbed	0	0.1
Land restored	0	0.1

*Provide a description of any implemented land restoration/green infrastructure programs for the Site in the space provided on Page 3.*

<b>Description of green remediation programs reported above</b> (Attach additional sheets if needed)
---

**Energy Usage:**

The two site-related sub-slab depressurization systems (SSDSs) are currently obtained from the local electrical utility. The SSDS fans draw approximately 100 watts of power each hour and operate continuously year-round, the total energy consumption of these two systems would be approximately 1,752 KWh per year, 8,800 KWh for five years. one SSDS was noted to not be operational during the 2019 Site-wide inspection; therefore, less electricity than noted may have been consumed. The SSDS located at 46-48 Fernwood Avenue has been in operation since 2007. The SSDS located at 40 Fernwood Ave has been operating since 2012, prior to which it was a soil vapor extraction (SVE) system and we don't have the power requirements to calculate use. This energy usage estimate does not include the energy consumed during remedial actions in 2011, which is unknown.

**Waste Generation:**

Waste generated during this reporting period includes personal protective equipment (e.g., disposable gloves), polyethylene and silicone tubing, and packing material and ice associated with groundwater sampling events. Purge water was disposed of by discharging onto the ground in unpaved areas. Paper and office supplies were also consumed associated with sampling activities and report preparation. Approximately 496 tons of soil and 40 tons of concrete debris were excavated and disposed of off-site during remedial action activities performed in 2011. Approximately 470 tons of soil, an approximate 1000-gallon underground storage tank (UST), and liquid UST contents were removed and disposed of in 2001. In 2000, approximately fifteen, 55-gallon drums of spent solvent and the top several inches of soil from the site yard were removed and disposed of off-Site. Quantities of waste generated during the Site remedial history are approximate and may not include all waste generated.

**Transportation/Shipping:**

Current reporting period transportation miles are associated with conducting site visits to perform routine annual site management activities including site-wide inspections, off-Site residential SSDS inspections, and groundwater gauging and sampling. Annual site management activities were performed over 1to2 field days to reduce back and forth transportation. Transportation includes consultant transportation activities. No contractors were utilized during this reporting period. Generally, local staff are utilized to perform work at the site. Staff primarily utilized at the site are located between 50 and 100 miles from the site.

**Water usage:**

Minimal amounts of water are used during groundwater sampling activities to decontaminate sampling equipment.

**Land Use and Ecosystems:**

The current site activities do not disturb land and/or ecosystems. The 2011 remedial action activities disturbed and restored 4,330 square feet, or approximately 0.1 acres, according to the as-built survey included in the 2012 FER. Historical site activities (2001 UST removal, 2000 spill cleanup) disturbed minimal acreage and have been restored to pre-existing conditions.

**Recommendations/Other:**

Not applicable.

**CONTRACTOR CERTIFICATION**

I, \_\_\_\_\_ (Name) do hereby certify that I am \_\_\_\_\_ (Title) of \_\_\_\_\_ (Contractor Name), which is responsible for the work documented on this form. According to my knowledge and belief, all of the information provided in this form is accurate and the site management program complies with the DER-10, DER-31, and CP-49 policies.

\_\_\_\_\_ Date

\_\_\_\_\_ Contractor



**APPENDIX B**



## SITE HISTORY

### PREFERRED ELECTRIC MOTORS, INC. SITE (NYSDEC SITE NO. 828106)

<u>Date</u>	<u>Description</u>
~1911	The site building was purchased by W.A Margander and Co. Contractors. The original site building was constructed prior to 1911. Additional structures were built between 1911 and 1952. The site buildings were used as equipment storage, an automobile repair shop, and soap manufacturer.
~1952 to ~2000	Preferred Electric Motors, Inc (PEM) purchased the Site and used as an electric motor refurbishing and repair facility. PEM utilized a degreaser for electric motor component cleaning. The degreaser tank (with vent) was located in the northwest corner of the building.
~2000	PEM ceased operations at the Site. In May of 2000, the New York State Department of Environmental Conservation (NYSDEC) was notified of a release of used solvents (primarily trichloroethene [TCE]) at the Site. PEM contracted Environmental Products and Services, Ltd. to remove approximately fifteen, 55-gallon drums of spent solvent, as well as the top several inches of soil from the Site's yard for off-site disposal. PEM subsequently ceased remedial activities due to lack of funds. NYSDEC conducted a state funded Interim Remedial Measure (IRM) to remove a 1,000-gallon underground storage tank (UST) from the Site. Approximately 470 tons of contaminated soils were removed, and a soil vapor extraction system (SVE) was installed as part of the IRM at an adjacent property (40 Fernwood Avenue). NYSDEC listed the Site as a Class 2 Site in the Registry of Inactive Hazardous Waste Disposal Sites in New York.
2000 to 2005	PEM removed heavy equipment, small electric motors, and large electric motors from the site building. Under contract with the NYSDEC, MACTEC Engineering & Consulting, P.C. (MACTEC), removed and disposed of several containers of machine oil, degreasers, and containers of soil from previous remedial action in 2005.
2004 to 2007	MACTEC, under contract to NYSDEC completed a Remedial Investigation / Feasibility Study (RI/FS) in 2004 and finalized the associated report in 2007. Site contamination was noted to be present in the site soil, groundwater, soil gas/soil vapor, floor drains and groundwater, primarily consisted of chlorinated solvent and fuel-related compounds, including benzene, toluene, ethylbenzene, and xylenes. Concrete flooring within the site building was also noted to contain polychlorinated biphenyls.
2005	An IRM was conducted to remove and properly dispose of materials noted during the RI/FS. Multiple drums (empty and full drums), containers of TCE, degreaser, liquid waste, and solid waste were disposed.
2007	An IRM was conducted to install an active SSDs at an adjacent off-site residential property (46-48 Fernwood Avenue).
2007	A Final Feasibility Study Addendum was prepared by MACTEC.
2008	A Record of Decision (ROD) was issued by NYSDEC.



- 2009 A Pre-Design Investigation was performed by MACTEC, involving the installation of additional monitoring wells, performance of microbial bench-scale test (on-site soil and groundwater), evaluate the feasibility of biodegradation remediation, as well as to collection of the information required for the design of the selected remedy. Additionally, a site survey was performed, including a certified boundary survey.
- 2010 MACTEC prepared final remedy design drawings and bid documents.
- 2011 Precision Environmental Services, Inc. was selected as the prime contractor to complete the final remedy implementation. Remedial activities were conducted at the Site between February 21, 2011 and July 31, 2011.
- 2011 to 2012 MACTEC completed post remedial activities at the Site in 2011, including multiple bioremediation reagent EHC® injection events, soil vapor sampling and analysis, upgrade to an active SSDS at 40 Fernwood Avenue (a passive SSDS remained after the SVE system was removed), and groundwater sampling and analysis. MACTEC finalized a Final Engineering Report MACTEC in 2012.
- 2014 NYSDEC reclassified the Site from Class 2 (significant threat to public health or environment - action required) to Class 4 (Site properly closed – requires continued management), and MACTEC finalized a Site Management Plan (SMP).
- 2019 The first Periodic Review Report (PRR) was completed for the period of June 10, 2013, to September 30, 2019, by D&B Engineers and Architects, P.C. (D&B). Minimal site work was conducted between 2013 and 2019.
- 2019 to 2021 Site work resumed, including annual groundwater sampling, cover system inspection, and off-site SSDS inspection. D&B revised the SMP in August 2021.
- 2021 to 2024 Annual site work continued. The second PRR for the Site was prepared for the period of September 30, 2019, through September 30, 2024, by TRC Engineers, Inc.



## CUSTODIAL RECORD

### PERTINENT SITE DOCUMENTS

#### PREFERRED ELECTRIC MOTORS, INC. SITE (NYSDEC SITE NO. 828106)

MACTEC, 2004. *Remedial Investigation / Feasibility Study Work Plan, Preferred Electric Motors*. (December 2004).

GeoLogic, 2007. *As-Built Documentation Residential Sub-Slab Ventilation System, Fernwood Avenue, Rochester, New York*. (January 2007).

MACTEC, 2007. *Final Remedial Investigation/Feasibility Study Report, Preferred Electric Motors, NYSDEC Site No. 828106, Rochester, NY*. (February 2007).

MACTEC, 2007. *Final Feasibility Study Addendum, Preferred Electric Motors, NYSDEC Site No. 828106, Rochester, NY*. (August 2007).

NYSDEC, 2008. *Proposed Remedial Action Plan, Preferred Electric Motors Site, Rochester, Monroe County, NY, NYSDEC Site No. 828106*. (February 2008).

NYSDEC, 2008. *Record of Decision, Preferred Electric Motors Site, Rochester, Monroe County, NY, NYSDEC Site No. 828106*. (March 2008).

MACTEC, 2011a. *Final Engineering Report, Preferred Electric Motors, NYSDEC Site No. 828106, Rochester, NY*. (June 2012).

MACTEC, 2011b. *Post-Remedial Action Field Activities Plan, Preferred Electric Motors Construction Oversight, NYSDEC Site No. 828106, Rochester, NY*. (September 2011).

MACTEC, 2012a. *Observation Trip Report, Preferred Electric Motors, NYSDEC Site No. 828106, Rochester, NY*. (March 2012).

MACTEC, 2012b. *Post-Remedial Action Field Activities Report, Preferred Electric Motors, NYSDEC Site No. 828106, Rochester, NY*. (August 2012).

NYSDEC, 2014. *Site Management Plan, Preferred Electric Motors Site, Rochester, Monroe County, NY, NYSDEC Site No. 828106*. (February 2014).

D&B, 2020. *Periodic Review Report 2013-2019, NYSDEC Site No. 828106, Preferred Electric Motors, Rochester, NY*. (April 2020).

D&B, 2021. *Site Management Plan, Preferred Electric Motors Site, Revision No. 1, Monroe County, NY, NYSDEC Site No. 828106*. (August 2021).



**APPENDIX C**



**Enclosure 1**  
**Engineering Controls - Standby Consultant/Contractor Certification Form**



	Site Details	Box 1	
<b>Site No.</b>	<b>828106</b>		
<b>Site Name Preferred Electric Motors, Inc.</b>			
Site Address: 42 Fernwood Avenue      Zip Code: 14621			
City/Town: Rochester			
County: Monroe			
Site Acreage: <del>0.3</del> 0.35			
Reporting Period: September 30, 2019 to September 30, 2024			
		YES	NO
1.	Is the information above correct?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2.	To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b>			
5.	To your knowledge is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.</b>			
_____ Signature of Standby Consultant/Contractor		_____ Date	

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
<b>106.270-01-077</b>	Frontier Carpet	Landuse Restriction Site Management Plan O&M Plan Monitoring Plan IC/EC Plan Ground Water Use Restriction

From ROD:

Imposition of an institutional control in the form of an environmental easement that will require (a) compliance with the approved site management plan; (b) restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH; and (c) the property owner to complete and submit to the Department a periodic certification of institutional and engineering controls.

Development of a site management plan which will include the following institutional and engineering controls: (a) management of the final cover system to restrict infiltration. Excavated soil will be tested, properly handled to protect human health and safety in a manner acceptable to the Department; (b) continued evaluation of the potential for vapor intrusion, including provision for mitigation of any impacts identified; (c) monitoring of groundwater; (d) identification of any use restrictions on the site; and (e) provisions for the continued proper operation and maintenance of the existing vapor mitigation systems.

The property owner will 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. 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.

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
<b>106.270-01-077</b>	Vapor Mitigation Cover System

a) management of the final cover system to restrict infiltration. Excavated soil will be tested, properly handled to protect human health and safety in a manner acceptable to the Department; (b) continued evaluation the potential for vapor intrusion, including provision for mitigation of any impacts identified; (c) monitoring of groundwater; (d) identification of any use restrictions on the site; and (e) provisions for the continued proper operation and maintenance of the existing vapor mitigation systems.

### 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 certification, including data and material prepared by previous contractors for the current certifying period, if any;

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 complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or 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) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.**

\_\_\_\_\_  
Signature of Standby Consultant/Contractor

\_\_\_\_\_  
Date

**IC/EC CERTIFICATIONS**

**Professional Engineer Signature**

I certify that all information in Boxes 2 through 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 Allen Zgaljardic at TRC Engineers, Inc  
print name

1090 Union Road, Suite 280

West Seneca, NY 14224,  
(print business address)

I am certifying as a Professional Engineer.



Signature of Professional Engineer



Date 8/29/25



**APPENDIX D**



**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** November 19-20, 2019

**REPORT NO.** 191119

**PAGE NO.** 1 OF 3

**PROJECT NO.** 3150-45AA

### DAILY FIELD ACTIVITY REPORT

<b>PROJECT</b>	Preferred Electric Motors	<b>WEATHER</b>	<b>TIME</b>	<b>TEMP.</b>	<b>PRECIP.</b>	<b>WIND (MPH)</b>	<b>WIND (DIR)</b>
<b>LOCATION</b>	City of Rochester, New York	Cloudy	11/19/2019 08:15	36°F	0.0	0-5	N
<b>ATTACHMENTS</b>	GW Elevation Data Table, Photo Log; Groundwater Sampling Logs	Cloudy	11/20/2019 7:45	38°F	0.0	0-5	W

**SITE CONDITIONS:** Snow covering vegetative surfaces

**WORK GOAL FOR DAY:** Site Inspection, SSDS Inspection, Groundwater Sampling

#### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Skylar Haas	D&B	(11/19/2019) 8:15	15:45
Gunther Schnorr	D&B	(11/19/2019) 8:15	15:45
Robert Strang	NYSDEC	(11/19/2019) 11:00	13:45
Skylar Haas	D&B	(11/20/2019) 7:45	12:30
Gunther Schnorr	D&B	(11/20/2019) 7:45	12:30

#### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
Canon Camera	PowerShot SD 790 IS	Geotech Peristaltic Pump	GeoPump
Solinist Water Level Meter	Model 101		
Heron Water Level Meter	Dipper-T		
Horiba Water Quality Meter	U-52		
Horiba Water Quality Meter	U-52		
Geotech Peristaltic Pump	GeoPump		

#### HEALTH & SAFETY:

<b>PPE REQUIRED:</b> Level D	<b>HASP?</b> YES
<b>SITE SAFETY OFFICER:</b> Gunther Schnorr	
<b>H &amp; S NOTES:</b> Site work performed in Level D PPE.	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	



**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** November 19-20, 2019

**REPORT NO.** 191119

**PAGE NO.** 2 OF 3

**PROJECT NO.** 3150-45AA

## DAILY FIELD ACTIVITY REPORT

### *DESCRIPTION OF WORK PERFORMED AND OBSERVED*

D&B Engineers and Architects, P.C. (D&B) conducted a site inspection and groundwater monitoring at the Preferred Electric Motors site (i.e., the "Site") located at 42 Fernwood Avenue on November 19 and 20, 2019. The objective of the site inspection was document conditions of the asphalt cover system and document the conditions of the two offsite sub-slab depressurization systems. The anticipated scope of the groundwater monitoring was to collect groundwater samples from nine existing monitoring wells (MW-02, MW-04, MW-05, MW-06, MW-07, MW-08, MW-10, MW-13, and JML-2) for VOC analysis using USEPA method 8260C.

Depth to groundwater and total well depth measurements were collected on November 19, 2019 from 8 monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10). Details regarding the wells are listed in the table below. Total depth measurements for MW-1, MW-2, MW-3, MW-4, and MW-5 were observed to be inconsistent with the constructed depths. The total depth of monitoring well MW-1 was at the anticipated top of the screened interval. The depth of monitoring well MW-2 was measured to be approximately 10 inches deeper than the anticipated well depth.

One round of groundwater samples was collected from seven monitoring wells (MW-1, MW-2, MW-4, MW-5, MW-7, MW-9, and MW-10). Using peristaltic pumps and dedicated disposable tubing, D&B purged each well using USEPA low flow purging and sampling procedures. Water samples were collected from each of the well locations after purging had been completed and field parameters had stabilized. Field parameters were recorded and are presented on the Groundwater Sampling Records, attached. The Horiba flow-through multiparameter water quality meter was decontaminated between each sampling location using an Alconox solution and a deionized PFOA-free water rinse. Purge water was disposed of by discharging onto the ground in unpaved areas and personal protective equipment and dedicated tubing removed from all wells was bagged and disposed of offsite at D&B's East Syracuse office.

The collected groundwater samples, and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, field blank, trip blank) were relinquished using chain-of-custody documentation to Eurofins TestAmerica Service Center in Syracuse, New York for laboratory analysis by method(s) TCL VOCs by USEPA Method 8260C. In addition, groundwater samples from MW-1, MW-2, and MW-5 were submitted to be analyzed for PFAS Standard List (21 analytes) by USEPA Method 537 Modified and 1,4 Dioxane by USEPA Method 8270D GC/MS SIM. QA/QC samples including a blind duplicate was collected from MW-1 and matrix spike/matrix spike duplicate samples were collected from MW-5. In addition, a field blank was collected at MW-5.

Two of the monitoring wells (MW-8 and MW-13) could not be visually observed due to snow covering the ground. The snow was removed using a hand shovel and these monitoring wells still could not be located. The parking lot where monitoring wells MW-6 and JML-2 are located was covered with vegetation (ivy vines) and snow and these wells were not located. Heavy organic sheens were observed inside the well casing at MW-5. The sheen on the water in MW-5 broke into small platelets when disturbed. This monitoring well was surrounded by and covered with decomposing leaves and seeds from a nearby black walnut tree. Monitoring wells MW-5, MW-6 and JML-2 are located at 678-690 Portland Avenue and the building does not appear to be occupied. Monitoring well MW-3 and MW-7 were full of water above their j-plugs. As indicated in the table below, monitoring well MW-3 did not have enough water to sample (less than 3 inches) at this location. Monitoring well MW-4 was in a driveway at 664-666 Portland Avenue and the concrete pad surrounding this flush mount well was cracked, unstable, and was elevated approximately 2 inches above the surrounding asphalt driveway. The surface completion for flush mount monitoring well MW-4 should be replaced if this monitoring location is necessary, otherwise MW-4 should be abandoned. Based on the inability to locate MW-6, MW-8, MW-13, and JML-2, NYSDEC requested sampling of monitoring wells MW-1, MW-3, and MW-9.



**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** November 19-20, 2019

**REPORT NO.** 191119

**PAGE NO.** 3 OF 3

**PROJECT NO.** 3150-45AA

## DAILY FIELD ACTIVITY REPORT

### *DESCRIPTION OF WORK PERFORMED AND OBSERVED*

The asphalt cover system at the site (42 Fernwood Avenue) appears to be in good condition. There was no visible distress to the cover system observed (i.e., cracking, rutting, deformation, potholes). The building at the site appears to be abandoned and is not secure. The overhead garage door was off the track and a section of the door was propped up against the entrance. The pedestrian door was not locked and provided access to the building. The building is filled with miscellaneous debris and refuse including, but not limited to, used drums (see photolog IMG\_9267 through IMG\_9277). The concrete floor that could be observed appeared to be in good condition. The roof of the building was in poor condition and water from melting snow was observed leaking in the center of the main room.

The sub-slab depressurization system (SSDS) located at 40 Fernwood Avenue and 46-48 Fernwood Avenue were inspected from the exterior of the house. The system at 40 Fernwood Avenue was not operating and the flexible coupler beneath the fan/blower was disconnected. Inspection of the electrical meter indicated that no power was consumed on 11/19 or 11/20, and this house did not appear to be occupied. The system at 46-48 Fernwood Avenue was observed to be operating as evidenced by the audible sound of the blower motor operating. The piping system appeared to be intact. Access to both properties was attempted to inspect the internal SSDS components by knocking on the doors, but there was no answer.

**PREPARED BY (OBSERVER)**

**REVIEWED BY**

PRINT NAME: Gunther J. Schnorr

PRINT NAME: Robbin Petrella

SIGNATURE:

SIGNATURE:

**ADDITIONAL SHEETS USED**

emailed draft / final to NYSDEC – date: 12/6/2019

hardcopy to NYSDEC – date:

**3150-45AA Preferred Electric Motors  
November 2019  
Well Depth Measurements**

<b>Well</b>	<b>DATE</b>		<b>INSTALLED DEPTH</b>
	<b>11/19/2019</b>		
	<b>DEPTH TO WATER</b>	<b>TOTAL DEPTH</b>	
MW-1	5.29	6	16
MW-2	6.69	24.57	23.75
MW-3	9.12	9.35	16.85
MW-4	10.43	12.46	15.95
MW-5	7.90	14.2	16.8
MW-6	--	--	16.45
MW-7	9.18	19.46	20
MW-8	--	--	17
MW-9	9.82	21.95	22
MW-10	9.86	19.7	20.4
MW-13	--	--	NA
JML-2	--	--	NA

**NOTES:**

1. All measurements in feet.
2. Depth to water and total depth measurements are from top of riser.
3. Installed depth based on well construction logs provided in Appendix A of the 2007 RI/FS and are from ground surface and not top of riser.
4. "NA" Well construction logs for these location were not included in the 2007 RI/FS.
5. "--" Monitoring well not located.

**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

<b>PHOTO</b>	<b>DATE</b>	<b>DESCRIPTION</b>
IMG_9238	11-19-2019	View of MW-2 located in the driveway at 42 Fernwood Avenue.
IMG_9241	11-19-2019	View of MW-10 located in the sidewalk on Trust Street.
IMG_9243	11-19-2019	View of MW-4 located in driveway of 664-666 Portland Avenue. Concrete pad is 2 inches above surrounding asphalt pavement.
IMG_9244	11-19-2019	View of MW-4 with annular space filled with debris. The J-plug has been modified to allow well cover to fit.
IMG_9245	11-19-2019	View of MW-7 located in backyard of 674 Portland Avenue with water over J-plug.
IMG_9247	11-19-2019	View of MW-5 located in the grass adjacent to the sidewalk at 678-690 Portland Avenue.
IMG_9250	11-19-2019	View of what appeared to be an organic sheen observed in MW-5.
IMG_9252	11-19-2019	View of the rear parking lot at 678-690 Portland Avenue where MW-6 and MW-JML-2 are located, but not observed.
IMG_9253	11-19-2019	View of the thick vegetative cover in the rear parking lot at 678-690 Portland Avenue where MW-6 and MW-JML-2 are located, but not observed.
IMG_9254	11-19-2019	View of 42 Fernwood Avenue and asphalt surface cover (Preferred Electric Motors site, facing north). 40 Fernwood Avenue on the left and can see SSDS discharge stack above roofline.
IMG_9255	11-19-2019	View of SSDS piping exiting basement at 40 Fernwood Avenue.
IMG_9256	11-19-2019	View of SSDS system at 40 Fernwood Avenue. Fan/blower is not operating. The lowest coupler below the fan/blower is detached from the PVC pipe.
IMG_9257	11-19-2019	View of SSDS discharge stack at 40 Fernwood Avenue.
IMG_9262	11-19-2019	View of SSDS system at 44-46 Fernwood Avenue. Fan/blower was operating, and the exterior piping system appeared competent.
IMG_9263	11-19-2019	View of SSDS discharge stack at 44-46 Fernwood Avenue.
IMG_9264	11-19-2019	View of SSDS system at 44-46 Fernwood Avenue.
IMG_9266	11-19-2019	View of SSDS system at 44-46 Fernwood Avenue. Old fan/blower on the ground to the left.
IMG_9267	11-19-2019	Interior of 42 Fernwood Avenue.

**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

<b>PHOTO</b>	<b>DATE</b>	<b>DESCRIPTION</b>
IMG_9268	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9269	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9270	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9271	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9272	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9273	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9274	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9275	11-19-2019	Interior of 42 Fernwood Avenue. A three-inch hole in the roof was observed in the center of the main room where leaks were observed.
IMG_9276	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9277	11-19-2019	Interior of 42 Fernwood Avenue.
IMG_9278	11-19-2019	View of 42 Fernwood Avenue and asphalt surface cover (facing south).
IMG_9279	11-19-2019	View of 42 Fernwood Avenue and asphalt surface cover (facing southwest).
IMG_9280	11-19-2019	View of 42 Fernwood Avenue and asphalt surface cover (facing north-northeast).
IMG_9281	11-19-2019	View of 42 Fernwood Avenue and asphalt surface cover (facing northeast).
IMG_9282	11-19-2019	View of the rear parking lot at 678-690 Portland Avenue (facing east).
IMG_9283	11-19-2019	View of the rear parking lot at 678-690 Portland Avenue (facing northeast).
IMG_9284	11-19-2019	View of the rear parking lot at 678-690 Portland Avenue (facing north).
IMG_9285	11-19-2019	View of the rear parking lot at 678-690 Portland Avenue (facing south).
IMG_9286	11-19-2019	View of the front of 678-690 Portland Avenue.
IMG_9287	11-19-2019	View of the front of 678-690 Portland Avenue at location of MW-5.

**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG_9292	11-19-2019	View of MW-1 located at 42 Fernwood Avenue.
IMG_9296	11-20-2019	View of MW-9 located in the grass adjacent to the sidewalk on Bernard Street.

PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9138



IMG\_9241



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9243



IMG\_9244



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9245



IMG\_9247



**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_9250



**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_9252



IMG\_9253



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9254



IMG\_9255



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9256



IMG\_9257



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9262



IMG\_9263



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9264



IMG\_9266



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9267



IMG\_9268



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9269



IMG\_9270



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9271



IMG\_9272



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9273



IMG\_9274



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9275



11/19/2019

IMG\_9276



11/19/2019

PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9277



IMG\_9278



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9279



IMG\_9280



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9281



IMG\_9282



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9283



IMG\_9284



**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_9285



IMG\_9286



PHOTOGRAPH LOG  
NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_9287



IMG\_9292



**PHOTOGRAPH LOG**  
**NOVEMBER 19, 2019 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_9296



# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors Site DATE 11/19/19

WELL ID: MW-1 Time On-site: 1300 Time Off-site: \_\_\_\_\_  
 SAMPLERS: GJS

Depth of well (feet from top of casing)..... 5.29 6.00  
 Initial static water level (feet from top of casing)..... 5.29

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic \_\_\_\_\_ Disposable \_\_\_\_\_  
 Pump \_\_\_\_\_ Bladder Pump \_\_\_\_\_  
 (dedicated tubing) \_\_\_\_\_ (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 2 in. casing: \_\_\_\_\_ ft. of water x 0.16 = \_\_\_\_\_ gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons  
4" casing 0.71 0.65 0.46 gallons

volume of water removed: > 1 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

Field Tests ±0.1 376 ±376 1096 1076 >0.5 ±10

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
5.33 1305	<u>100ml/m</u>	<u>5.35</u>	<u>6.71</u>	<u>9.83</u>	<u>1.04</u>	<u>16.9</u>	<u>0.00</u>	<u>-185</u>
1310		<u>5.40</u>	<u>6.67</u>	<u>9.89</u>	<u>1.02</u>	<u>16.6</u>	<u>0.00</u>	<u>-183</u>
1315 1346		<u>5.44</u>	<u>6.75</u>	<u>10.2</u>	<u>1.01</u>	<u>16.9</u>	<u>0.00</u>	<u>-197</u>
1376 1388		<u>5.46</u>	<u>6.89</u>	<u>10.18</u>	<u>1.01</u>	<u>16.7</u>	<u>0.00</u>	<u>-197</u>
1375 1406		<u>5.46</u>	<u>6.96</u>	<u>10.29</u>	<u>0.998</u>	<u>17.3</u>	<u>0.00</u>	<u>-202</u>
1336 1425		<u>5.47</u>	<u>6.98</u>	<u>10.31</u>	<u>0.996</u>	<u>17.7</u>	<u>0.00</u>	<u>-202</u>
1337 14		<u>5.49</u>	<u>6.98</u>	<u>10.31</u>	<u>0.995</u>	<u>17.8</u>	<u>0.00</u>	<u>-202</u>
<u>Final well depth 5.47 completed at 1435</u>								

Purging Rate: 1 gallon / 0.5 hr = 2 gph Purging Time: 30 minutes - Removal over 2 well volumes, minimal drawdown

Sampling Time of Sample Collection: 1340 Dup Collected for EC, 1,4 Dioxane & VOCs @ MW-1

Method: \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
 \_\_\_\_\_ X Dedicated pump and tubing \_\_\_\_\_

Analyses: X USEPA Method 8260C TCL VOCs, EC, 1,4 Dioxane  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate  
 \_\_\_\_\_ Parameters

Observations Weather/Temperature: overcast 38°f 0-Smph NNW  
 Sample description: Clear to light tan  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes X no \_\_\_\_\_ describe Slight egglike smell



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors Site DATE 11/19/19

WELL ID: MW-02 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: SH GS \_\_\_\_\_

Depth of well (feet from top of casing)..... 24.57  
 Initial static water level (feet from top of casing)..... 17.17  
x3 8.22

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) \_\_\_\_\_ Bladder Pump (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 2 in. casing: \_\_\_\_\_ ft. of water x 0.16 = 2.74 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 2.75 gal. >3 volumes: yes \_\_\_\_\_ no  purged dry? yes \_\_\_\_\_ no

**Field Tests**

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
1130		7.4	8.55	16.53	1.02	13.5	20.24	-142
1135		8.25	8.98	16.17	1.03	7.3	21.86	-243
1140		9.07	9.00	15.78	1.05	0.4	21.42	-272
1145		<del>9.00</del> 9.5	9.60	15.62	1.06	0.0	20.46	-288
1150		9.95	10.13	15.53	1.07	0.0	19.97	-297
1155		10.25	9.45	15.38	1.29	0.2	11.62	-299
1200		10.46	9.04	15.27	1.28	0.3	11.02	-301
1205		10.9	8.78	14.99	1.30	1.8	10.59	-304
1210		11.18	8.80	14.85	1.33	18.4	10.24	-305
1215		11.36	9.08	14.77	1.37	16.6	10.22	-307
1220		11.82	9.39	14.70	1.40	16.4	10.25	-309

Purging Rate: 3.3 gph  
 Purging Time: \_\_\_\_\_

**Sampling**

Time of Sample Collection: 1225

Method: \_\_\_\_\_ Stainless steel bailer  
 \_\_\_\_\_ Teflon bailer  
 \_\_\_\_\_ Pos. Disp. Pump  
 \_\_\_\_\_ Disposable bailer  
 Dedicated pump and tubing

Analyses:  USEPA Method 8260C TCL VOCs, EC, 1,4 Dioxane  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate Parameters

**Observations**

Weather/Temperature: cloudy, 38°  
 Sample description: smells like sulphur  
 Free Product? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Odor? yes  no \_\_\_\_\_ describe sulfur





**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors Site DATE 11/20/19

WELL ID: MW-04 Time On-site: 7:45 Time Off-site: \_\_\_\_\_  
 SAMPLERS: SH

Depth of well (feet from top of casing)..... 12.42  
 Initial static water level (feet from top of casing)..... 10.15

x3 1.11

**Purging Method**

- Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) \_\_\_\_\_ Bladder Pump (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**

2 in. casing: 2.32 ft. of water x 0.16 = 0.37 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: ~1 gal. >3 volumes: yes \_\_\_\_\_ no  purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

**Field Tests**

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
1105		10.8	7.17	12.36	1.21	51.4	8.95	103
1110		11.5	7.00	12.24	1.24	13.0	8.13	120
1115		10.98	6.96	11.06	1.29	9.3	7.69	122
1120		10.95	6.95	10.62	1.30	5.7	7.03	120
1125		10.95	6.95	10.70	1.30	4.5	6.42	120
1130		10.97	6.43	10.71	1.32	4.2	6.60	123

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_

2.4 gpm

Sampling Time of Sample Collection: 1130

- Method: \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_ Teflon bailer \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_ Disposable bailer \_\_\_\_\_  Dedicated pump and tubing \_\_\_\_\_
- Analyses:  USEPA Method 8260C TCL VOCs \_\_\_\_\_ Total & Dissolved Metals \_\_\_\_\_ Leachate Parameters \_\_\_\_\_

**Observations**

Weather/Temperature: \_\_\_\_\_  
 Sample description: \_\_\_\_\_  
 Free Product? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no  describe \_\_\_\_\_



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

MW05\_112019

SITE Preferred Electric Motors Site DATE 11/20/19

3 MS MSD

WELL ID: MW05 Time On-site: 0745 Time Off-site: \_\_\_\_\_  
 SAMPLERS: SH

Depth of well (feet from top of casing)..... 12.48 14.2  
 Initial static water level (feet from top of casing)..... 7.90 7.85 4.70 6.35

2.19 x3 3.048

Purging Method  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 Disposable Bladder Pump \_\_\_\_\_  
 (dedicated tubing) \_\_\_\_\_ (Low Flow) \_\_\_\_\_

Well Volume Calculation:  
 2 in. casing: 6.58 ft. of water x 0.16 = 73 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 1.5 gal. >3 volumes: yes \_\_\_\_\_ no  purged dry? yes \_\_\_\_\_ no

**Field Tests**

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
<del>830</del>		<del>7.85</del>	<del>7.90</del>	<del>5.80</del>	<del>0.821</del>	<del>27.9</del>		
830		8.22	7.48	10.36	0.820	41.5	8.61	57
835		8.31	7.02	10.50	0.842	30.5	7.21	59
840		8.50	6.81	11.28	0.838	15.1	5.67	64
845		8.65	6.67	11.48	0.843	8.6	4.85	63
850		8.7	6.76	11.53	0.842	6.0	4.59	62
855		8.8	6.76	11.60	0.840	2.0	4.21	57
900		8.85	6.80	11.64	0.839	0.0	4.50	45
905		8.92	6.80	11.70	0.837	0.0	4.45	43
910		8.96	6.79	11.72	0.835	0.0	4.02	39

Purging Rate: \_\_\_\_\_ Purging Time: \_\_\_\_\_  
2.25 gph

Sampling Time of Sample Collection: 915

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 Stainless steel bailer  USEPA Method 8260C TCL VOCs, EC, 1,4 Dioxane, MS, MSD  
 Teflon bailer  
 Pos. Disp. Pump \_\_\_\_\_ Total & Dissolved Metals  
 Disposable bailer \_\_\_\_\_ Leachate  
 Dedicated pump and tubing \_\_\_\_\_ Parameters  
Field Blank

Observations  
 Weather/Temperature: 37°, cloudy  
 Sample description: \_\_\_\_\_  
 Free Product? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no  describe \_\_\_\_\_



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors Site DATE 11/20/19

WELL ID: MW-7 Time On-site: 1050 Time Off-site: \_\_\_\_\_  
 SAMPLERS: GJS

Depth of well (feet from top of casing)..... 19.46  
 Initial static water level (feet from top of casing)..... 8.71

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic \_\_\_\_\_ Disposable \_\_\_\_\_  
 Pump \_\_\_\_\_ Bladder Pump \_\_\_\_\_  
 (dedicated (Low Flow) \_\_\_\_\_  
 tubing) X

**Well Volume Calculation:**  
 2 in. casing: 10.75 ft. of water x 0.16 = 1.72 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 2.74 gal. >3 volumes: yes \_\_\_\_\_ no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

Field Tests 5.01 ±3% ±7% 10% 75 10% 70.5 +10

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
1110	150ml	9.47	7.53	10.54	0.793	37.8	6.74	-173
1115		9.97	7.43	11.12	0.787	29.4	4.92	-170
1120		10.26	7.43	11.36	0.796	3.0	3.91	-161
1125		10.70	7.43	11.51	0.797	2.6	3.51	-147
1130		11.09	7.40	11.60	0.804	4.7	3.06	-128
1135		11.38	7.37	11.68	0.806	5.1	2.84	-111
1140		11.67	7.36	11.71	0.816	6.3	2.78	-98
1145		12.00	7.37	11.75	0.821	13.5	1.82	-85
1150		12.24	7.37	11.78	0.822	46.4	1.56	-81
1155		12.57	7.37	11.83	0.822	238	1.09	-66
1200		12.87	7.37	11.84	0.824	244	1.04	-59
1205		13.08	7.36	11.84	0.823	251	1.02	-56

Purging Rate: 2.5 gph

Sampling Time of Sample Collection: 1205

Method: \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_ Teflon bailer \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing  
 Analyses: X USEPA Method 8260C TCL VOCs \_\_\_\_\_ Total & Dissolved Metals \_\_\_\_\_ Leachate Parameters \_\_\_\_\_

**Observations**  
 Weather/Temperature: 30°F  
 Sample description: Turn in color  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no Y describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors Site DATE 11/20/19

WELL ID: MW-09 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: GSS 0840

Depth of well (feet from top of casing)..... 21.95  
 Initial static water level (feet from top of casing)..... 9.82

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic \_\_\_\_\_ Disposable \_\_\_\_\_  
 Pump \_\_\_\_\_ Bladder Pump \_\_\_\_\_  
 (dedicated (Low Flow)  
 tubing) \_\_\_\_\_

**Well Volume Calculation:**  
 2 in. casing: 12.13 ft. of water x 0.16 = 1.94 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 1 gal. >3 volumes: yes \_\_\_\_\_ no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

**Field Tests** ±0.1 3% ±3% 10% > 5 10% > 0.5 ±10

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
0855	200	10.19	6.83	12.85	1.10	10.7	0.68	-335
0900	175	11.70	6.94	12.95	1.10	69.9	0.00	-351
0910	150	12.00	7.02	12.89	1.11	27.3	0.00	-358
0915	150	12.35	7.02	12.73	1.13	19.6	0.00	-362
0920		12.65	7.07	12.86	1.17	16.4	0.00	-370
0925		13.41	7.12	12.90	1.19	14.4	0.00	-376
0930		13.21	7.11	13.00	1.22	12.3	0.00	-378
0935		13.50	7.11	13.06	1.24	10.5	0.00	-381
0940		13.73	7.10	13.14	1.26	9.6	0.00	-385
0945		13.92	7.11	13.16	1.27	9.5	0.00	

Purging Rate: \_\_\_\_\_ Purging Time: 45 min  
 $\frac{1}{0.75 \text{ hr}} = 1.3 \text{ gal/hr}$

**Sampling**  
 Time of Sample Collection: 0945

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer  USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_ Leachate  
 \_\_\_\_\_ Parameters  
 Dedicated pump and tubing

**Observations**  
 Weather/Temperature: 38°F S-10mph W overcast, slight drizzle  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no  describe \_\_\_\_\_  
 Odor? yes  no \_\_\_\_\_ describe Slight egg-like smell



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

MW-10-111919

SITE Preferred Electric Motors Site DATE 11/19/19

WELL ID: MW10 - normal depth Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: \_\_\_\_\_

Depth of well (feet from top of casing)..... 20.7 19.7 9.89  
 Initial static water level (feet from top of casing)..... 9.81

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailor \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peristaltic \_\_\_\_\_ Disposable \_\_\_\_\_  
 Pump \_\_\_\_\_ Bladder Pump \_\_\_\_\_  
 (dedicated (Low Flow)  
 tubing) \_\_\_\_\_

**Well Volume Calculation:**  
 2 in. casing: 9.89 ft. of water x 0.16 = 1.58 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.36 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

4.74

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

Field Tests 0.1 3% 3% ✓ 107.785 10

Time	Volume Purged (ml)	Depth to Water (ft)	pH	Temp (c°)	Spec. Cond. (ms/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/l)	ORP (mv)
1430		10.10	8.52	13.3	2.10	0.0	6.8	-102
1435		10.10	8.18	14.54	1.84	0.0	5.77	-103
1440		10.11	8.06	14.50	1.65	0.0	5.27	-91
1445		10.12	7.78	14.83	1.53	0.0	4.33	-72
1450		10.12	7.71	14.85	1.54	0.0	4.09	-53
1455		10.12	7.66	14.83	1.54	0.0	3.94	-50
1500		10.12	7.65	14.83	1.52	0.0	3.93	-54

Purging Rate: 2 gph Purging Time: \_\_\_\_\_  
 Sampling  
 Time of Sample Collection: 1500

Method: \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
 X Dedicated pump and tubing \_\_\_\_\_

Analyses: X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Total & Dissolved Metals  
 \_\_\_\_\_ Leachate Parameters

**Observations**  
 Weather/Temperature: cloudy, 38°  
 Sample description: \_\_\_\_\_  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no \_\_\_\_\_ describe \_\_\_\_\_





**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** December 15-16, 2020

**REPORT NO.** 201215

**PAGE NO.** 1 OF 3

**PROJECT NO.** 3150-45AA

**NYSDEC SITE NO.** 828106

## DAILY FIELD ACTIVITY REPORT

<b>PROJECT</b>	<u>Preferred Electric Motors</u>	<b>WEATHER</b>	<b>TIME</b>	<b>TEMP.</b>	<b>PRECIP.</b>	<b>WIND (MPH)</b>	<b>WIND (DIR)</b>
<b>LOCATION</b>	<u>City of Rochester, New York</u>						
<b>ATTACHMENTS</b>	<u>GW Elevation Data Table, Photo Log; Groundwater Sampling Logs</u>	Cloudy	12/15/2020 08:15	27°F	Snow	5-10	N
		Cloudy	12/16/2020 08:15	18°F	0.0	10-15	E

**SITE CONDITIONS:** Snow covering vegetative surfaces

**WORK GOAL FOR DAY:** Site Inspection, SSDS Inspection, Groundwater Sampling

### PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Tracey Garland	D&B	(12/15/2020) 8:15	15:30
Gunther Schnorr	D&B	(12/15/2020) 8:15	15:30
Tracey Garland	D&B	(12/16/2020) 8:15	14:30
Gunther Schnorr	D&B	(12/16/2020) 8:15	14:30

### EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
IPhone	SE		
Solinist Water Level Meter (2)	Model 101		
Horiba Water Quality Meter (2)	U-52		
Geotech Peristaltic Pump	GeoPump		
Schonstedt Magnetic Locator	GA-52CX		

### HEALTH & SAFETY:

<b>PPE REQUIRED:</b> Level D	<b>HASP?</b> YES
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**SITE SAFETY OFFICER:** Gunther Schnorr

**H & S NOTES:** Site work performed in Level D PPE.



**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** December 15-16, 2020

**REPORT NO.** 201215

**PAGE NO.** 2 OF 3

**PROJECT NO.** 3150-45AA

## DAILY FIELD ACTIVITY REPORT

### *DESCRIPTION OF WORK PERFORMED AND OBSERVED*

D&B Engineers and Architects, P.C. (D&B) conducted a site inspection and groundwater monitoring at the Preferred Electric Motors site (i.e., the "Site") located at 42 Fernwood Avenue on December 15 and 16, 2020. The objective of the site inspection was to document conditions of the asphalt cover system and document the conditions of the two offsite sub-slab depressurization systems. The anticipated scope of the groundwater monitoring was to collect groundwater samples from nine existing monitoring wells (MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-13 and JML-2) for volatile organic compound (VOC) analysis using USEPA method 8260C. Since wells MW-6, MW-8, MW-13 and JML-2 could not be located in 2019, NYSDEC requested sampling of MW-1, MW-3, and MW-9.

Depth to groundwater and total well depth measurements were collected on December 15, 2020 from 8 monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10). Details regarding the wells are listed in the table below. Total depth measurements for MW-1, MW-2 and 4 were observed to be inconsistent with the constructed depths. The total depth of MW-1 was at the anticipated top of the screened interval; however, this well was observed to be dry. The depth of MW-2 and MW-4 were measured deeper than the anticipated well depth.

One round of groundwater samples was collected from seven monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-10). MW-1 was dry and was not sampled. Using peristaltic pumps and dedicated disposable tubing, D&B purged each well using USEPA low flow purging and sampling procedures. Water samples were collected from each of the well locations after purging had been completed and field parameters had stabilized, except as noted below for MW-4. Field parameters were recorded and are presented on the Groundwater Sampling Records, attached. Due to excessive reddish-orange sediment observed at monitoring well MW-3, this well was agitated and pumped dry and allowed to recover. The purge water from MW-3 was treated using a portable granular activated carbon unit. Fine vegetative roots were observed at MW-4 and were restricting flow through the tubing. MW-4 was allowed to recover and a sample was collected from the upper portion of the water column within the screen interval. Purge water, including the water from MW-3 after passing through the carbon unit, was disposed of by discharging onto the ground in unpaved areas and personal protective equipment and dedicated tubing removed from all wells was bagged and disposed of offsite at D&B's East Syracuse office.

The collected groundwater samples, and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, trip blank) were relinquished using chain-of-custody documentation to Eurofins TestAmerica Service Center in Syracuse, New York for laboratory analysis by method(s) TCL VOCs by USEPA Method 8260C.

Four of the monitoring wells (MW-6, MW-8, MW-13, JML-2) could not be located, though D&B attempted to locate these wells using a magnetic locator. The parking lot where monitoring wells MW-6 and JML-2 are located was covered with thick vegetation (ivy vines) and miscellaneous debris. Monitoring wells MW-5, MW-6 and JML-2 are located at 678-690 Portland Avenue. The building associated with this address did not appear to be occupied and the rear parking lot appeared to be operating as a private auto salvage yard. Water was observed surrounding the risers at MW-3, MW-5 and MW-7. It was noted at MW-7 the water was above the j-plug. As indicated in the table below, MW-1 was observed to be dry. MW-1 was missing one well cover bolt, and MW-2 and MW-3 were missing one well cover bolt and one tab was broken on the curb box. MW-4 is located in the driveway at 664-666 Portland Avenue and the concrete pad surrounding this flush mount well was cracked, unstable, and is elevated approximately 2 inches above the surrounding asphalt driveway. Following a review of the data generated during this sampling event, monitoring well MW-4 should be considered for abandonment. Three VOCs were detected below Class GA groundwater standards at MW-4 in 2011 (chloroform at 1.9 parts per billion (ppb), cis-1,2-dichloroethene at 0.58J ppb, trichloroethene (TCE) at 1.6 ppb) one in 2012 (TCE at 1.2 ppb), and none in 2019.

The asphalt cover system at the Site appears to be in good condition. There was no visible distress to the cover system observed (i.e., cracking, rutting, deformation, potholes). The overhead garage door that was observed in disrepair in 2019, has been removed and the building has been secured with plywood sheets nailed across the openings.



**D&B ENGINEERS  
AND  
ARCHITECTS, P.C.**

**DATE:** December 15-16, 2020

**REPORT NO.** 201215

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**PROJECT NO.** 3150-45AA

### DAILY FIELD ACTIVITY REPORT

The property at 40 Fernwood Avenue is a single-family rental property currently occupied by two adults and a child under 5 years old. The sub-slab depressurization system (SSDS) at 40 Fernwood Avenue was operating and the flexible coupler beneath the fan/blower outside the residence was observed to be loose. Access was granted by the tenant to inspect the interior components of the SSDS.

The basement is unfinished and has a door at the top of the stairs which separates the basement from the first floor living quarters. Storage boxes and a forced air furnace were observed in the basement. The foundation walls (cinder block) and the concrete floor appeared to be competent. The SSDS piping in the basement was intact and the U-tube manometer indicated a negative pressure of 0.7 water column inches (wci). Following collecting the initial manometer reading, duct tape was used to seal the gap between the flexible coupler and pipe that was observed to be disconnected. Following this temporary repair, the U-tube manometer indicated a negative pressure of 1.5 wci. D&B recommends the coupler be reattached in the near future.

The system at 46-48 Fernwood Avenue was observed to be operating as evidenced by the audible sound of the blower motor operating and the exterior piping system appeared to be intact. Access to 46-48 Fernwood Avenue was attempted to inspect the internal SSDS components, however, the tenant indicated he did not have access to the basement. The tenant indicated that we were not allowed to access the property and was not willing to provide D&B the owners contact information.

**PREPARED BY (OBSERVER)**

**REVIEWED BY**

PRINT NAME: Gunther J. Schnorr

PRINT NAME: Robbin Petrella

SIGNATURE: *Gunther J. Schnorr*

SIGNATURE: *Robbin A. Petrella*

**ADDITIONAL SHEETS USED**

emailed draft / final to NYSDEC – date: 12/28/2020

hardcopy to NYSDEC – date:

**3150-45AA Preferred Electric Motors  
December 2020  
Well Depth Measurements**

<b>Well</b>	<b>DATE</b>		<b>INSTALLED DEPTH</b>
	<b>12/15/2020</b>		
	<b>DEPTH TO WATER</b>	<b>TOTAL DEPTH</b>	
MW-1	Dry	5.89	16
MW-2	6.69	24.39	23.75
MW-3	11.79	16.82	16.85
MW-4	11.80	16.78	15.95
MW-5	8.67	16.5	16.8
MW-6	--	--	16.45
MW-7	9.70	19.27	20
MW-8	--	--	17
MW-9	9.71	21.74	22
MW-10	10.70	19.53	20.4
MW-13	--	--	NA
JML-2	--	--	NA

**NOTES:**

1. All measurements in feet.
2. Depth to water and total depth measurements are from top of riser.
3. Installed depth based on well construction logs provided in Appendix A of the 2007 RI/FS and are from ground surface and not top of riser.
4. "NA" Well construction logs for these location were not included in the 2007 RI/FS.
5. "--" Monitoring well not located.

**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

<b>PHOTO</b>	<b>DATE</b>	<b>DESCRIPTION</b>
IMG_0397	12-15-2020	U-tube manometer associated with the sub-slab depressurization system (SSDS) at 40 Fernwood Avenue.
IMG_0402	12-15-2020	U-tube manometer associated with the SSDS at 40 Fernwood Avenue following temporary repair of loose coupler.
IMG_0404	12-15-2020	View of 42 Fernwood Avenue and asphalt surface cover (Preferred Electric Motors site, facing north). 40 Fernwood Avenue is on the left. The SSDS discharge can be seen above the roofline.
IMG_0406	12-15-2020	View of SSDS system at 40 Fernwood Avenue. The lowest coupler below the fan/blower was observed detached from the PVC pipe. Duct tape was used as a temporary repair.
IMG_0407	12-15-2020	View of plywood installed over doors at 42 Fernwood Avenue.
IMG_0408	12-16-2020	View of MW-4 located in driveway of 664-666 Portland Avenue. Cracked concrete pad is 2 inches above surrounding asphalt pavement. Stains appear to be oil from a leaking vehicle.
IMG_0413	12-16-2020	Cracked and elevated concrete pad surrounding monitoring well MW-4.
IMG_0414	12-16-2020	View of monitoring well MW-3.
IMG_0418	12-16-2020	View of what appears to be vegetative roots that were removed from tubing while purging monitoring well MW-4.
IMG_0421	12-16-2020	View of the rear parking lot at 678-690 Portland Avenue where monitoring wells MW-6 and JML-2 were shown to be located on Site figures, facing south.
IMG_0422	12-16-2020	View of the rear parking lot at 678-690 Portland Avenue, facing east.
IMG_0423	12-16-2020	View of the rear parking lot at 678-690 Portland Avenue, facing north.

PHOTOGRAPH LOG  
DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK

IMG\_0397



IMG\_0402

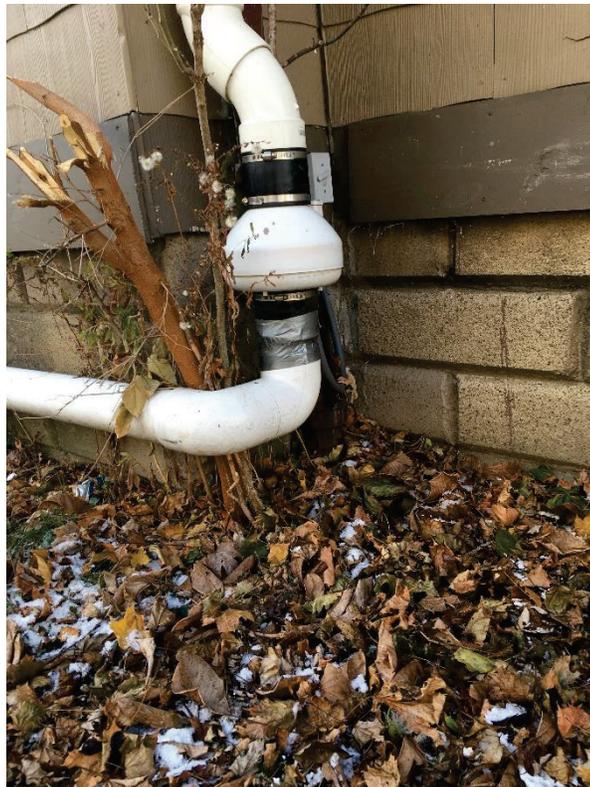


**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_0404



IMG\_0406



**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_0407

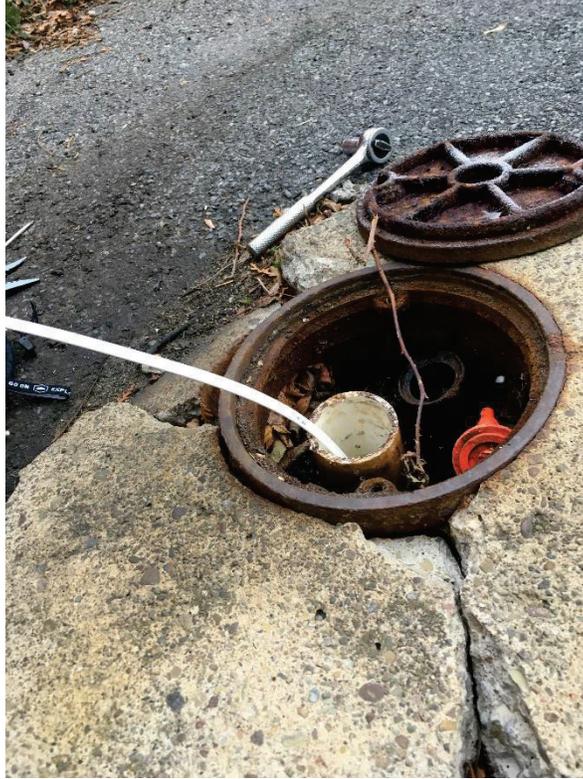


IMG\_0408



**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_0413



IMG\_0414



**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_0418



IMG\_0421



**PHOTOGRAPH LOG**  
**DECEMBER 15-16, 2020 D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

IMG\_0422



IMG\_0423





# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12/15/2020

WELL ID: MW-2 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: GJS/ITG

Depth of well (feet from top of casing/riser) ..... 24.39 Depth to      /      of screen  
 Initial static water level (feet from top of casing/riser) ..... 7.54 (top / bottom)

Purging Method		Well Volume Calculation:	
Airlift	<u>Centrifugal</u>	1 in casing	<u>    </u> ft. of water x 0.04 = <u>    </u> gallons
Bailer	<u>    </u>	2 in. casing:	<u>16.85</u> ft. of water x 0.16 = <u>2.70</u> gallons
Peri Pump	<u>    </u>	3 in. casing:	<u>    </u> ft. of water x 0.37 = <u>    </u> gallons
(dedicated tubing)	<u>X</u>	4 in. casing:	<u>    </u> ft. of water x 0.65 = <u>    </u> gallons
		5 in. casing:	<u>    </u> ft. of water x 1.02 = <u>    </u> gallons
		6 in. casing:	<u>    </u> ft. of water x 1.47 = <u>    </u> gallons

volume of water removed: ~1 gal. >3 volumes: yes      no      purged dry? yes      no     

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
1215	250ml/min	8.50	5.85	12.91	1.25	9.3	3.02	-69
1220		8.71	6.10	13.37	1.27	8.7	1.19	-98
1225		9.02	6.36	13.31	1.28	8.1	0.76	-117
1230		9.42	6.51	13.21	1.29 ✓	3.8	0.50	-130
1235		9.85	6.58 ✓	13.40 ✓	1.29 ✓	0.3 ✓	0.35 ✓	-140
1240		10.10	6.61	13.28	1.29	0.1	0.29	-143
1245		10.35	6.62	13.24	1.30	0.3	0.28	-146
1250								

Purge Volume: 21g Purging Time: 35min  
 Purge Rate (gph): 1.7gpm

Sampling Time of Sample Collection: 1245

Method:	Analyses:
<u>    </u> Stainless steel bailer	<u>X</u> USEPA Method 8260C TCL VOCs
<u>    </u> Teflon bailer	<u>    </u>
<u>    </u> Pos. Disp. Pump	<u>    </u>
<u>    </u> Disposable bailer	<u>    </u>
<u>X</u> Dedicated pump and tubing	<u>    </u>

Observations  
 Well Observations: Missing one tab (out of 2) Bolt is getting stripped.  
 Weather/Temperature: 27°F, 10-15 mph wind, Sunny  
 Sample description: Clear, slight egg-like odor / Sump  
 Free Product? yes      no X describe       
 Sheen? yes      no X describe       
 Odor? yes X no      describe Slight egg-like / sump

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12/15/2020

WELL ID: MW-3 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: GJS

Depth of well (feet from top of casing/riser) ..... 16.82 Depth to \_\_\_\_\_ of screen  
 Initial static water level (feet from top of casing/riser) ..... 11.79 (top / bottom)

Purging Method	Well Volume Calculation:	
Airlift _____	Centrifugal _____	1 in. casing _____ ft. of water x 0.04 = _____ gallons
Bailer _____	Pos. Displ. _____	2 in. casing: _____ ft. of water x 0.16 = _____ gallons
Peri Pump _____	Disposable _____	3 in. casing: _____ ft. of water x 0.37 = _____ gallons
(dedicated tubing) X _____	Bladder Pump _____	4 in. casing: _____ ft. of water x 0.65 = _____ gallons
	(Low Flow) _____	5 in. casing: _____ ft. of water x 1.02 = _____ gallons
		6 in. casing: _____ ft. of water x 1.47 = _____ gallons

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
1330	~150	12.90	6.68	11.84	1.60	443	5.22	-35
1335		13.62	6.61	12.42	1.64	298	4.79	-9
1340		14.10	6.59	12.48	1.66	219	4.53	11
1345		14.40	6.60	12.45	1.64	174	2.15	24
1350	Stopped to clear sediment filling up from the well							
1355/1400		14.90	6.62	13.13	1.44	12.1	1.18	-39
1405		15.15	6.63	13.65	1.45	11.1	0.70	-64
1410		15.42	6.64	13.84	1.44	23.30	0.60	-76
1415		15.74	6.63	13.79	1.45	29.40	0.61	-77
1420	Well went dry - will let recharge & sample tomorrow							

Purge Volume: \_\_\_\_\_ Purging Time: \_\_\_\_\_  
 Purge Rate (gph): \_\_\_\_\_

*pulling up large amount of reddish orange sediment. Sunday taking to 16ft bgr. well went dry. Elected to extend tubing and purge well completely. will let recover & sample on 12/16.*

**Sampling**

Time of Sample Collection: \_\_\_\_\_

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_ X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
 X \_\_\_\_\_ Dedicated pump and tubing \_\_\_\_\_

**Observations**

Well Observations: Water in annular space, rust color residue on probe (mud like)  
 Weather/Temperature: 20° F Overcast  
 Sample description: Light Brown with fine particles clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12/16/2020

WELL ID: MW-3 Conto Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: GJS

Depth of well (feet from top of casing/riser) ..... 16.82 Depth to      /      of screen  
 Initial static water level (feet from top of casing/riser) ..... 12 ft (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump \_\_\_\_\_  
 (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in. casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 4.82 ft. of water x 0.16 = 0.77 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
11:35		12.35	6.68	11.32	1.55	55*	5.56	124
11:40		13.75	6.67	17.93	1.48	33	4.61	102
11:45		14.00	6.79	11.94	1.48	20*	2.71	-99
11:50		Lost Section*						
11:55		14.05	6.75	12.65	1.50	111	2.52	-61
12:00		14.43	6.72	13.02	1.47	69.5	1.85	-87
12:05		14.70	6.72	12.90	1.44	34.9	1.58	-102
12:10		15.00	6.73	12.90	1.41	12.0	1.55	-114
12:15		15.20	6.73	12.98	1.39	6.5	1.55	-117
12:20		15.35	6.73	12.97	1.38	5.0	1.52	-119

104 \*Turbidity reading may not be accurate, water is clear pump lost section for no apparent reason.

Purge Volume: \_\_\_\_\_ Purging Time: \_\_\_\_\_  
 Purge Rate (gph): \_\_\_\_\_

Sampling Time of Sample Collection: 1220

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing \_\_\_\_\_

**Observations**  
 Well Observations: No Bolt on Well Cover, One Tab broken, Rust Color Residue on Probe & Tape  
 Weather/Temperature: 20°F overcast  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12/10/2020

WELL ID: MW-4 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
SAMPLERS: \_\_\_\_\_

Depth of well (feet from top of casing/riser) ..... 16.78 Depth to 1 of screen  
Initial static water level (feet from top of casing/riser) ..... 11.80 (top / bottom)

**Purging Method**  
Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
(dedicated tubing) X Bladder Pump \_\_\_\_\_  
(Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
1 in. casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
2 in. casing: \_\_\_\_\_ ft. of water x 0.16 = \_\_\_\_\_ gallons  
3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no \_\_\_\_\_

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
0940	250	12.60	6.77	10.79	1.39	137	9.19	110
0945	150	13.48	6.85	11.61	1.37	114	8.92	93
0950	"	13.70	6.89	10.72	1.37	123	7.32	72
0955		13.75	6.90	12.25	1.38	101	1.96	71
1000	Tubing got plugged with Red like material							
1005								
1010								
1015								

Purge Volume: \_\_\_\_\_ Purging Time: \_\_\_\_\_  
Purge Rate (gph): \_\_\_\_\_  
Sampling Time of Sample Collection: 1320

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 Stainless steel bailer  USEPA Method 8260C TCL VOCs  
 Teflon bailer \_\_\_\_\_  
 Pos. Disp. Pump \_\_\_\_\_  
 Disposable bailer \_\_\_\_\_  
 Dedicated pump and tubing \_\_\_\_\_

**Observations**

Well Observations: Concrete Pad ~ 3" elevated above driveway/road  
Weather/Temperature: Overcast 18°F  
Sample description: Light Brown with Particulates  
Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

oil stained driveway adjacent to well

Take photo of fine roots that was stuck onto bottom of tubing - replaced material well plug installed last year with plastic bag + zip ties

fine hair like filaments observed in tubing, < 1cm in length. Issues with tubing + application hardware freezing + partially Gross in well Pump could not keep suction attempted several times to adjust height, will Go back and collect Sample from upper interval, well completion sticks up above drive ways. Well should be redone when Repair occurs. or abandoned.



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors (Site # 828106) DATE ~~12/11/20~~ 12/16/20

WELL ID: MW-5 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: TG

Depth of well (feet from top of casing/riser) ..... 16.50 Depth to 1 of screen  
 Initial static water level (feet from top of casing/riser) ..... 8.44 (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump \_\_\_\_\_  
 (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 8.06 ft. of water x 0.16 = 1.3 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 4 gal. >3 volumes: yes X no \_\_\_\_\_ purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
9:50		9.55	6.84	10.61	1.15	5.0	1.43	-42
9:55		9.61	6.84	10.53	1.15	2.8	1.23	-48
10:00		9.67	6.84	10.71	1.16	1.5	1.01	-53
10:05		9.71	6.87	10.72	1.16	1.2	0.90	-58
10:10		9.87	6.81	11.37	1.16	1.2	0.84	-59
10:15		10.08	6.89	11.49	1.17	1.4	0.62	-69
10:20		10.20	6.89	11.50	1.18	2.0	0.57	-75
10:25		10.30	6.84	11.62	1.19	2.1	0.52	-81
10:30		10.36	6.90	11.68	1.20	1.4	0.50	-83
10:35		10.40	6.90	11.59	1.20	1.5	0.48	-88

Purge Volume: 49 gal Purging Time: 9:00 - 10:40 (1 hr 40 min)  
 Purge Rate (gph): 2.4

**Sampling**

Time of Sample Collection: 10:40

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing \_\_\_\_\_

**Observations**

Well Observations: looks good!  
 Weather/Temperature: 8:00 AM 17°F Overcast 17°C  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

*Started at 8:30 but delayed due to freezing lines*

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12-16-20

WELL ID: MW-7 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: TG

Depth of well (feet from top of casing/riser) ..... 19.27 Depth to 1 of screen  
 Initial static water level (feet from top of casing/riser) ..... 10.41 (top / bottom)

Purging Method		Well Volume Calculation:	
Airlift	<u>Centrifugal</u>	1 in casing	_____ ft. of water x 0.04 = _____ gallons
Bailer	_____	2 in. casing:	<u>8.86</u> ft. of water x 0.16 = <u>1.41</u> gallons
Peri Pump	_____	3 in. casing:	_____ ft. of water x 0.37 = _____ gallons
(dedicated tubing)	<u>X</u>	4 in. casing:	_____ ft. of water x 0.65 = _____ gallons
	_____	5 in. casing:	_____ ft. of water x 1.02 = _____ gallons
	_____	6 in. casing:	_____ ft. of water x 1.47 = _____ gallons

volume of water removed: 1.25 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
11:45		11.10	6.71	10.69	1.03	<del>4.55</del> 7.8	4.55	99
11:50		11.58	6.96	10.72	1.03	13.4	4.04	86
11:55		12.00	7.08	10.63	1.03	15.9	3.64	86
12:00		12.31	7.07	10.50	1.03	22.4	3.43	89
12:05		12.57	7.06	10.52	1.03	23.6	3.40	91
12:10		12.86	7.05	10.69	1.03	20.8	3.40	92
12:15		13.22	7.05	10.68	1.03	16.5	3.23	94
12:20		13.42	7.04	10.76	1.03	15.1	3.07	95
12:25		13.71	7.04	10.78	1.03	16.0	3.14	96

Purge Volume: 1.25 gal Purging Time: 11:45 ~ 12:25 (40 min)  
 Purge Rate (gph): 1.9

**Sampling**

Time of Sample Collection: 12:25

Method:	Analyses:
_____ Stainless steel bailer	<u>X</u> USEPA Method 8260C TCL VOCs
_____ Teflon bailer	_____
_____ Pos. Disp. Pump	_____
_____ Disposable bailer	_____
<u>X</u> Dedicated pump and tubing	_____

**Observations**

Well Observations: Looks good  
 Weather/Temperature: Overcast 24°F  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12-15-20

WELL ID: MW-9 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracey Gordon &

Depth of well (feet from top of casing/riser) ..... 21.74 Depth to 1 of screen  
 Initial static water level (feet from top of casing/riser) ..... 10.1 (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump \_\_\_\_\_  
 (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 11.64 ft. of water x 0.16 = 1.86 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 0.5 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
1435	1.5	10.20	6.63	12.44	1.77	39.9	2.22	-278
1440	1.5	10.20	6.68	13.23	1.53	15.5	2.76	-302
1445	1.5	10.20	6.72	13.41	1.33	11.2	1.32	-306
1450	1.5	12.80	6.76	13.36	1.03	12.7	4.55	-302
1455	1.5	13.44	6.78	13.33	0.940	11.5	4.74	-298
1500	1.5	14.19	6.79	13.01	0.944	10.5	4.73	-300
1505	1.5	14.82	6.75	13.09	0.965	10.1	4.73	-303
							4.65	

Purge Volume: 0.5 gal Purging Time: 14:25 - 15:05 (20min)  
 Purge Rate (gph): 1.5

**Sampling**

Time of Sample Collection: 15:05

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing \_\_\_\_\_

**Observations**

Well Observations: Looks good  
 Weather/Temperature: 26°C cloudy 2600  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors (Site # 828106) DATE 12-15-20

WELL ID: MW-10 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracey Cantrell

Depth of well (feet from top of casing/riser) ..... 19.53 Depth to 1 of screen  
 Initial static water level (feet from top of casing/riser) ..... 10.67 (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump \_\_\_\_\_  
 (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 8.86 ft. of water x 0.16 = 1.7 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 2.5 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
12:50		11.10	6.64	14.36	1.59	9.5	1.39	36
12:55		11.05	6.87	14.10	1.36	2.6	2.35	65
13:00		11.09	6.98	13.76	1.33	1.3	2.51	80
13:05		11.09	7.05	13.56	1.39	1.3	2.48	98
13:10		11.09	7.07	13.61	1.36	0.8	2.41	107
13:15		11.10	7.08	13.53	1.39	0.7	2.34	115
13:20		11.10	7.09	13.54	1.41	0.7	2.33	120
13:25		11.10	7.09	13.61	1.44	0.4	2.31	126
13:30		11.10	7.09	13.60	1.45	0.6	2.31	131

Purge Volume: 2.5 gal Purging Time: 12:30 - 13:30  
 Purge Rate (gph): 2.5

**Sampling**

Time of Sample Collection: 13:30

**Method:** \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X \_\_\_\_\_ Dedicated pump and tubing \_\_\_\_\_

**Analyses:** \_\_\_\_\_ X \_\_\_\_\_ USEPA Method 8260C TCL VOCs

**Observations**

Well Observations: Look good  
 Weather/Temperature: 27°F Cloudy  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_





**D&B ENGINEERS  
AND ARCHITECTS**

**DATE:** December 13-14, 2021

**REPORT NO.** 20211213

**PAGE NO.** 1 OF 3

**PROJECT NO.** 3150-45AA

**NYSDEC SITE NO.** 828106

### DAILY FIELD ACTIVITY REPORT

<b>PROJECT</b>	<u>Preferred Electric Motors</u>	<b>WEATHER</b>	<b>TIME</b>	<b>TEMP.</b>	<b>PRECIP.</b>	<b>WIND (MPH)</b>	<b>WIND (DIR)</b>
<b>LOCATION</b>	<u>City of Rochester, New York</u>						
<b>ATTACHMENTS</b>	<u>GW Elevation Data Table, Photo Log; Groundwater Sampling Logs</u>	Clear	12/13/2021 09:30	43°F	0.0	15-20	W
		Clear	12/13/2021 08:15	44°F	0.0	5-10	E

**SITE CONDITIONS:** Dry

**WORK GOAL FOR DAY:** Site Inspection, SSDS Inspection, Groundwater Sampling

**PERSONNEL ON SITE:**

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Tracey Garland	D&B	(12/13/2021) 9:30	16:30
Tracey Garland	D&B	(12/14/2021) 8:00	14:30

**EQUIPMENT ON SITE:**

TYPE	MODEL	TYPE	MODEL
IPhone	SE		
Solinist Water Level Meter	Model 101		
Horiba Water Quality Meter	U-52		
Geotech Peristaltic Pump	GeoPump		

**HEALTH & SAFETY:**

<b>PPE REQUIRED:</b> Level D	<b>HASP? YES</b>
<b>SITE SAFETY OFFICER:</b> Tracey Garland	
<b>H &amp; S NOTES:</b> Site work performed in Level D PPE.	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	



### DAILY FIELD ACTIVITY REPORT

#### DESCRIPTION OF WORK PERFORMED AND OBSERVED

D&B Engineers and Architects (D&B) was at the Preferred Electric Motors Site from December 13-14, 2021, to conduct a site-wide inspection, perform groundwater sampling, and inspect off-site sub-slab depressurization systems (SSDS). The objective of the site-wide inspection was to document conditions of the asphalt cover system. The scope of the groundwater monitoring was to collect groundwater samples from seven existing monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-9 and MW-10. The two offsite sub-slab depressurization systems were located at 40 Fernwood Avenue and 46-48 Fernwood Avenue, Rochester, New York.

The asphalt cover system at the Site appeared to be in good condition and no visible distress to the cover system was observed (i.e., cracking, rutting, deformation, potholes).

D&B performed a synoptic round of depth to groundwater and total well depth measurements before starting groundwater sampling activities. The water level meter was decontaminated using a Alconox solution and then potable water rinse after removal from each well. The depth to groundwater and total well depth measurements are provided in the GW Elevation Data Table, attached.

D&B collected groundwater samples from the groundwater monitoring wells following *Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (USEPA, 2017)*. The groundwater was purged and collected using a peristaltic pump connected to silicone tubing and low-density polyethylene tubing dedicated to each well. Water quality field parameters were measured utilizing a Horiba U-52 multiparameter water quality meter with a flow through cell during groundwater purging and prior to sampling. The water quality field parameters were recorded on the Groundwater Sampling Records, attached. A blind duplicate groundwater sample was collected from MW-2.

The groundwater samples and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, and trip blank) were relinquished following standard chain-of-custody procedures to Eurofins TestAmerica Service Center in Syracuse, New York. All collected groundwater samples were submitted for laboratory analysis by Method 8260C for Target Compound List volatile organic compounds. The groundwater sample collected from MW-2 was also submitted for analysis by Method 8270 SIM for 1,4-dioxane.

D&B observed that MW-2 was missing one of two bolts for the well lid and one tab was broken for the curb box. MW-3 was missing both bolts for the well lid. The entire curb box for MW-4 could be removed by hand, and concrete around this flush mount well was cracked, unstable and elevated approximately 2 inches above the surrounding asphalt driveway. A strong sewage odor was observed from the riser of MW-9. D&B was not able to locate monitoring wells MW-6, MW-8, MW-13, or JML-2. D&B recommends that MW-4 be considered for abandonment or replacement following review of the data generated from this sampling event.

The property at 40 Fernwood Avenue was a single-family residential home. The basement had a competent concrete slab-on-grade. SSDS piping in the basement was intact and the U-tube manometer indicated a negative pressure of 1.7 water column inches (wci). D&B observed no leaks associated with the SSDS at 40 Fernwood Avenue; however, duct tape was used to seal the gap between the flexible coupler and intake pipe to the fan. D&B recommends this coupler be reattached.

The property at 46-48 Fernwood Avenue appeared to be a multi-family residential home. D&B was unable to access the basement at 46-48 Fernwood Avenue because the tenant occupying the property did not have access. The tenant did not provide D&B with information to contact the property owner. The SSDS at 46-48 Fernwood Avenue appeared to be operating as evidenced by sound from the blower motor, and the exterior piping for this system appeared to be in good condition.



D&B ENGINEERS  
AND ARCHITECTS

DATE: December 13-14, 2020

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PROJECT NO. 3150-45AA

## DAILY FIELD ACTIVITY REPORT

**PREPARED BY (OBSERVER)**

**REVIEWED BY**

PRINT NAME: Tracey G. Garland

PRINT NAME: Robbin Petrella

SIGNATURE: *Tracey Garland*

SIGNATURE: *Robbin A Petrella*

**ADDITIONAL SHEETS USED**

emailed draft / final to NYSDEC – date: 12/16/21

hardcopy to NYSDEC – date:

**3150-45AA Preferred Electric Motors  
December 2021  
Groundwater Elevation Data Table**

<u>Well ID</u>	12/13/2021		INSTALLED DEPTH <sup>3</sup> ft BGS
	Depth to Water ft BTOR	Total Well Depth ft BTOR	
MW-2	6.76	24.61	23.75
MW-3	11.19	17.37	16.85
MW-4	11.50	16.76	15.95
MW-5	7.46	16.03	16.8
MW-7	8.48	19.52	20
MW-9	9.71	21.93	22
MW-10	10.09	19.75	20.4

NOTES:

1. ft BTOR: Feet Below Top of Riser
2. ft BGS: Feet Below Ground Surface
  
3. Installed depth based on well construction logs provided in Appendix A of the 2007 RI/FS.

**PHOTOGRAPH LOG**  
**DECEMBER 13-14, 2021**  
**D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

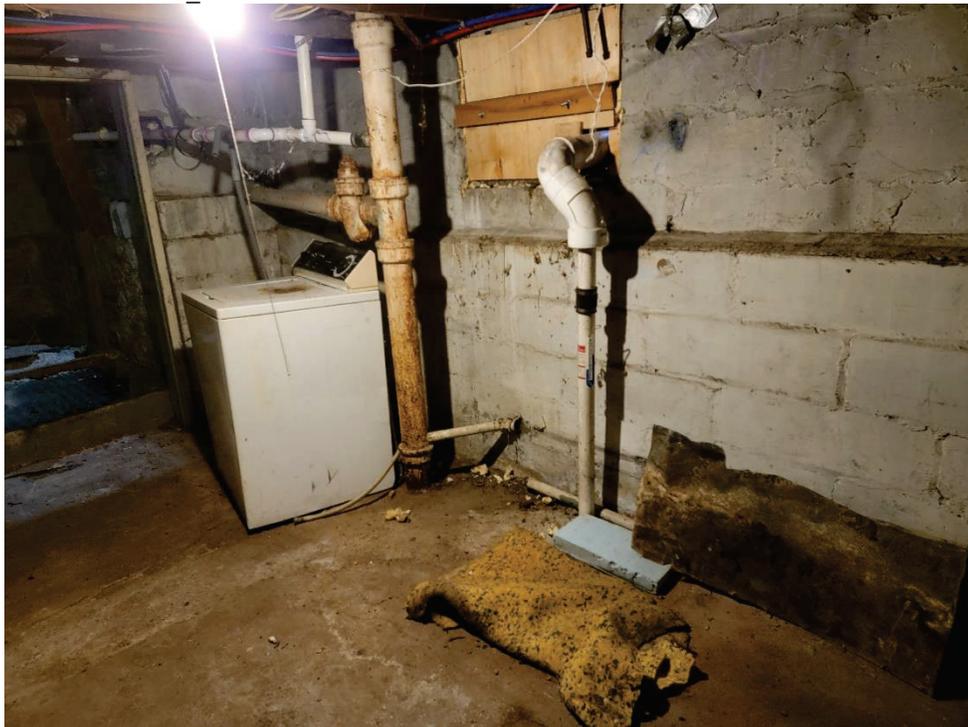
<b>PHOTO</b>	<b>DATE</b>	<b>DESCRIPTION</b>
20211213_160324	12-13-2021	U-tube manometer associated with the sub-slab depressurization system (SSDS) at 40 Fernwood Avenue.
20211213_160300	12-13-2021	The SSDS inside the basement at 40 Fernwood Avenue.
20211213_160307	12-13-2021	Inside the basement at 40 Fernwood Avenue.
20211214_141157	12-14-2021	The SSDS on the exterior of 40 Fernwood Avenue, facing west.
20211213_160940	12-13-2021	The SSDS on the exterior of 46-48 Fernwood Avenue, facing south.
20211214_141113	12-14-2021	View of 42 Fernwood Avenue and asphalt surface cover (Preferred Electric Motors site, facing north).
20211213_135954	12-13-2021	View of MW-4 located in driveway of 664-666 Portland Avenue. Cracked concrete pad is 2 inches above surrounding asphalt pavement. Stains appear to be oil from a leaking vehicle.
20211213_144351	12-13-2021	View of MW-4 with the well cover removed.
20211214_141534	12-14-2021	View of the rear parking lot at 678-690 Portland Avenue where monitoring wells MW-6 and JML-2 were shown to be located on Site figures, facing south.

**PHOTOGRAPH LOG  
DECEMBER 13-14, 2021  
D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK**

**20211213\_160324** - U-tube manometer associated with the sub-slab depressurization system (SSDS) at 40 Fernwood Avenue.



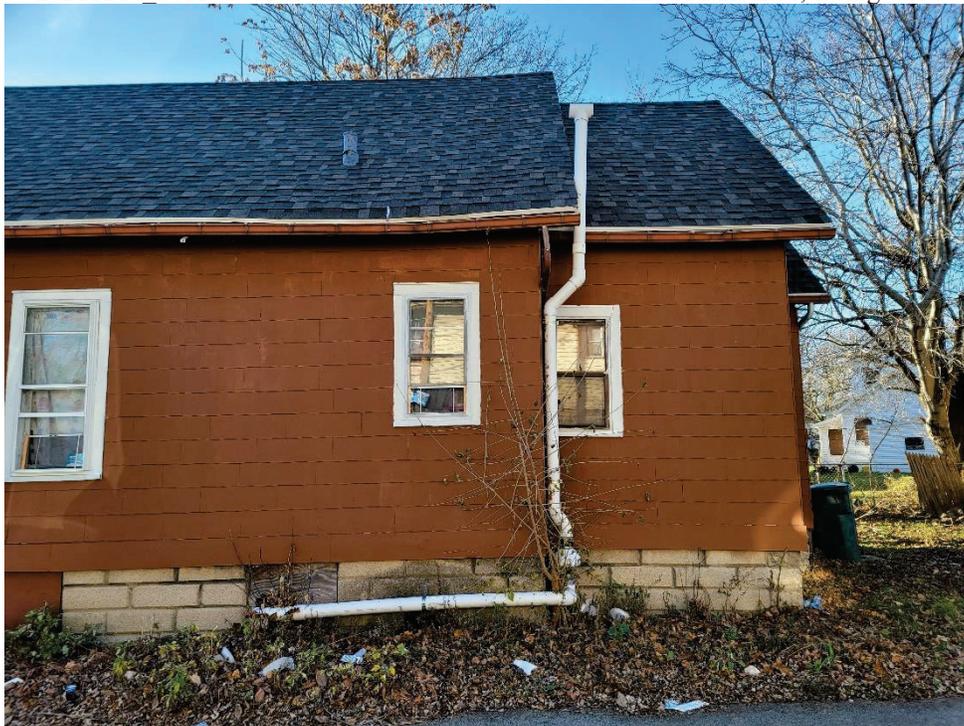
**20211213\_160300** - The SSDS inside the basement at 40 Fernwood Avenue.



**PHOTOGRAPH LOG  
DECEMBER 13-14, 2021  
D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK  
20211213 160307 - Inside the basement at 40 Fernwood Avenue.**



**20211214 141157 – The SSDS on the exterior of 40 Fernwood Avenue, facing west.**



**PHOTOGRAPH LOG  
DECEMBER 13-14, 2021  
D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK**

**20211213\_160940** - The SSDS on the exterior of 46-48 Fernwood Avenue, facing south.



**20211214\_141113** - 42 Fernwood Avenue and asphalt surface cover (Preferred Electric Motors site, facing north).



**PHOTOGRAPH LOG  
DECEMBER 13-14, 2021  
D&B JOB NO. 3150-45AA  
PREFERRED ELECTRIC MOTORS SITE  
CITY OF ROCHESTER, NEW YORK**

**20211213\_135954** - View of MW-4 located in driveway of 664-666 Portland Avenue. Cracked concrete pad is 2 inches above surrounding asphalt pavement. Stains appear to be oil from a leaking vehicle.



**20211213\_144351** - View of MW-4 with the well cover removed.



**PHOTOGRAPH LOG**  
**DECEMBER 13-14, 2021**  
**D&B JOB NO. 3150-45AA**  
**PREFERRED ELECTRIC MOTORS SITE**  
**CITY OF ROCHESTER, NEW YORK**

**20211214\_141534** – View of the rear parking lot at 678-690 Portland Avenue where monitoring wells MW-6 and JML-2 were shown to be located on Site figures, facing south.



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors DATE 12-14-21

WELL ID: MW-2 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracy Garland

Depth of well (feet from top of casing/riser) ..... 24.61 Depth to 143.243 of screen  
 Initial static water level (feet from top of casing/riser) ..... 6.76 (top / bottom)

**Purging Method**

Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Disp. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated Bladder Pump \_\_\_\_\_  
 tubing) X (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**

1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 18.01 ft. of water x 0.16 = 2.88 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
12:35		8.40	6.88	14.13	1.55	0.0	1.94	-326
12:40		8.86	6.85	14.31	1.54	0.0	0.96	-332
12:45		9.33	6.83	14.50	1.54	0.0	0.74	-334
12:50		9.71	6.81	14.58	1.55	0.0	0.65	-335

Purge Volume: 1 gal Purging Time: 12:30 - 12:50  
 Purge Rate (gph): \_\_\_\_\_

MW-2-20211214  
~~MW-2-20211214~~ MS 1MSD  
 DUP-20211214 - vocs only

**Sampling**

Time of Sample Collection: 12:50

Method: \_\_\_\_\_ Stainless steel bailer \_\_\_\_\_  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X \_\_\_\_\_ Dedicated pump and tubing \_\_\_\_\_

Analyses: X USEPA Method 8260C TCL VOCs  
X 1,4-Dioxane 8270 SIM

**Observations**

Well Observations: missily one bolt to cover.  
 Weather/Temperature: 43°F Clear  
 Sample description: Clear Rotten egg odor  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes X no \_\_\_\_\_ describe Smells like rotten eggs.



# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors DATE 12-13-21

WELL ID: MW-4 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: T. Fowler

Depth of well (feet from top of casing/riser) ..... 16.76 Depth to 6.5, 10.5 of screen  
 Initial static water level (feet from top of casing/riser) ..... 11.50 (top / bottom)

**Purging Method**

Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Disp. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**

1 in. casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 5.26 ft. of water x 0.16 = 0.84 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: \_\_\_\_\_ gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
<u>14:10</u>		<u>12.42</u>	<u>6.89</u>	<u>14.15</u>	<u>1.83</u>	<u>245</u>	<u>4.57</u>	<u>228</u>
<u>14:15</u>		<u>13.04</u>	<u>6.84</u>	<u>14.12</u>	<u>1.84</u>	<u>43.8</u>	<u>2.87</u>	<u>225</u>
<u>14:20</u>		<u>13.61</u>	<u>6.84</u>	<u>14.28</u>	<u>1.84</u>	<u>10.6</u>	<u>2.49</u>	<u>216</u>
<u>14:25</u>		<u>14.18</u>	<u>6.83</u>	<u>14.23</u>	<u>1.86</u>	<u>5.0</u>	<u>2.06</u>	<u>186</u>
<u>14:30</u>		<u>14.79</u>	<u>6.83</u>	<u>14.42</u>	<u>1.86</u>	<u>4.6</u>	<u>1.74</u>	<u>183</u>

Purge Volume: 1gal Purging Time: 14:05 - 14:30  
 Purge Rate (gph): \_\_\_\_\_

Sampling Time of Sample Collection: 14:30 MW-4-2021/12/13

Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_ 1,4 -Dioxane  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing \_\_\_\_\_

*oil stain in driveway next to well - no plug, plastic bag with zip ties.*

**Observations**

Well Observations: Concrete cracked around well. cover of rim completely removable w/ bolt  
 Weather/Temperature: clear / 52°F plant root like structure in sample  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

# FIELD OBSERVATION LOG GROUNDWATER SAMPLING RECORD

SITE Preferred Electric Motors DATE 12-13-21

WELL ID: MW-5 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracey Conard

Depth of well (feet from top of casing/riser) ..... 16.03 Depth to 7.4, 17.4 of screen  
 Initial static water level (feet from top of casing/riser)..... 7.46 (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated Bladder Pump \_\_\_\_\_  
 tubing) X (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in. casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 8.57 ft. of water x 0.16 = 1.37 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 1 gal gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
15:15		7.81	10.68	12.70	1.02	800+	1.84	151
15:20		7.95	10.65	12.72	1.02	800+	1.35	148
15:25		8.05	10.64	12.75	1.02	800+	0.96	145
15:30		8.11	10.63	12.77	1.04	0.0	0.87	142

Purge Volume: 1 gal Purging Time: 15:10 - 15:30  
 Purge Rate (gph): \_\_\_\_\_

Sampling Time of Sample Collection: 15:30 MW-5-20211213

**Method:**  
 \_\_\_\_\_ Stainless steel bailer  
 \_\_\_\_\_ Teflon bailer  
 \_\_\_\_\_ Pos. Disp. Pump  
 \_\_\_\_\_ Disposable bailer  
X Dedicated pump and tubing

**Analyses:**  
X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ 1,4-Dioxane

**Observations**  
 Well Observations: Good condition, covered by dead ~~leaves~~ & walnuts.  
 Weather/Temperature: 52°F  
 Sample description: Clear with red solids  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors DATE 12-13-21

WELL ID: MW-7 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: T. Garland

Depth of well (feet from top of casing/riser) ..... 19.52 Depth to 100.200 of screen  
 Initial static water level (feet from top of casing/riser) ..... 8.48 (top / bottom)

**Purging Method**  
 Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Displ. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated tubing) X Bladder Pump \_\_\_\_\_  
 (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**  
 1 in. casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 11.04 ft. of water x 0.16 = 1.77 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 0.8 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
13:00		<u>9.91</u>	<u>6.39</u>	<u>12.68</u>	<u>1.11</u>	<u>1.5</u>	<u>5.08</u>	<u>263</u>
13:05		<u>10.31</u>	<u>6.6</u>	<u>12.67</u>	<u>1.12</u>	<u>1.1</u>	<u>4.43</u>	<u>246</u>
13:10		<u>10.86</u>	<u>6.70</u>	<u>12.77</u>	<u>1.03</u>	<u>1.6</u>	<u>4.06</u>	<u>236</u>
13:15		<u>11.13</u>	<u>6.74</u>	<u>12.72</u>	<u>1.14</u>	<u>2.0</u>	<u>3.85</u>	<u>231</u>

Purge Volume: 0.8 gal Purging Time: 12:55 - 13:15  
 Purge Rate (gph): \_\_\_\_\_

**Sampling**

Time of Sample Collection: 13:15 MW-7-20211213  
 Method: \_\_\_\_\_ Analyses: \_\_\_\_\_  
 \_\_\_\_\_ Stainless steel bailer X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ Teflon bailer \_\_\_\_\_ 1,4 -Dioxane  
 \_\_\_\_\_ Pos. Disp. Pump \_\_\_\_\_  
 \_\_\_\_\_ Disposable bailer \_\_\_\_\_  
X Dedicated pump and tubing \_\_\_\_\_

**Observations**

Well Observations: Good condition  
 Weather/Temperature: Clear 15.0°F  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_



**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors DATE 12-14-21

WELL ID: MW-9 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracy Conrad \_\_\_\_\_

Depth of well (feet from top of casing/riser) ..... 21.93 Depth to 12.0, 22.0 of screen  
 Initial static water level (feet from top of casing/riser) ..... 9.85 (top / bottom)

**Purging Method**

Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Disp. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated Bladder Pump \_\_\_\_\_  
 tubing) X (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**

1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 12.08 ft. of water x 0.16 = 1.93 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 2 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
9:45		11.45	6.53	11.80	2.17	0.0	2.18	-289
9:50		11.88	6.56	11.91	2.07	0.0	1.10	-304
9:55		12.49	6.59	12.24	2.03	0.0	0.79	-318
10:00		13.03	6.61	12.57	2.02	0.0	0.67	-327
10:05		13.85	6.58	12.98	1.90	1.41	0.61	-330
10:10		14.29	6.57	13.39	1.87	1.0	0.58	-333
10:15		14.82	6.58	13.73	1.85	0.8	0.54	-335
10:20								
10:25			6.61	14.30	1.86	0.0	0.50	-337
10:30		16.18	6.61	14.35	1.86	0.0	0.48	-337

Purge Volume: 2 gal Purging Time: 9:40 - 10:30  
 Purge Rate (gph): \_\_\_\_\_

**Sampling**

Time of Sample Collection: 10:30 MW9-20211214

**Method:**

\_\_\_\_ Stainless steel bailer  
 \_\_\_\_ Teflon bailer  
 \_\_\_\_ Pos. Disp. Pump  
 \_\_\_\_ Disposable bailer  
X Dedicated pump and tubing

**Analyses:**

X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ 1,4 -Dioxane

**Observations**

Well Observations: good condition strong sewage odor.  
 Weather/Temperature: 36°F Partly Cloudy  
 Sample description: Clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes X no \_\_\_\_\_ describe Sewage odor.

**FIELD OBSERVATION LOG  
GROUNDWATER SAMPLING RECORD**

SITE Preferred Electric Motors DATE 12-14-21

WELL ID: MW-10 Time On-site: \_\_\_\_\_ Time Off-site: \_\_\_\_\_  
 SAMPLERS: Tracy Corland

Depth of well (feet from top of casing/riser) ..... 19.75 Depth to 100, 200 of screen  
 Initial static water level (feet from top of casing/riser) ..... 10.19 (top / bottom)

**Purging Method**

Airlift \_\_\_\_\_ Centrifugal \_\_\_\_\_  
 Bailer \_\_\_\_\_ Pos. Disp. \_\_\_\_\_  
 Peri Pump \_\_\_\_\_ Disposable \_\_\_\_\_  
 (dedicated Bladder Pump \_\_\_\_\_  
 tubing) X (Low Flow) \_\_\_\_\_

**Well Volume Calculation:**

1 in casing \_\_\_\_\_ ft. of water x 0.04 = \_\_\_\_\_ gallons  
 2 in. casing: 9.56 ft. of water x 0.16 = 1.53 gallons  
 3 in. casing: \_\_\_\_\_ ft. of water x 0.37 = \_\_\_\_\_ gallons  
 4 in. casing: \_\_\_\_\_ ft. of water x 0.65 = \_\_\_\_\_ gallons  
 5 in. casing: \_\_\_\_\_ ft. of water x 1.02 = \_\_\_\_\_ gallons  
 6 in. casing: \_\_\_\_\_ ft. of water x 1.47 = \_\_\_\_\_ gallons

volume of water removed: 1.25 gal. >3 volumes: yes \_\_\_\_\_ no X purged dry? yes \_\_\_\_\_ no X

**Field Tests**

Time	Purge Rate (ml/min)	Depth to Water (ft)	pH [+/-0.1 units]	Temp (c°) [3%]	Spec. Cond. (ms/cm) [3%]	Turbidity (NTUs) [10% >5 NTU]	DO (mg/l) [10% >0.5mg/l]	ORP (mv) [+/- 10]
8:40		10.41	7.11	14.16	1.18	29.9	3.32	196
8:45		10.45	7.02	13.82	1.19	24.9	2.17	196
8:50		10.48	6.98	13.56	1.20	15.8	1.91	194
8:55		10.50	6.95	13.62	1.21	6.3	1.88	195
9:00		10.52	6.94	13.62	1.21	1.4	2.05	197

Purge Volume: 1.25 gal Purging Time: 8:35 - 9:00  
 Purge Rate (gph): \_\_\_\_\_

**Sampling**

Time of Sample Collection: 9:00

**Method:**

\_\_\_\_ Stainless steel bailer  
 \_\_\_\_ Teflon bailer  
 \_\_\_\_ Pos. Disp. Pump  
 \_\_\_\_ Disposable bailer  
X Dedicated pump and tubing

**Analyses:**

X USEPA Method 8260C TCL VOCs  
 \_\_\_\_\_ 1,4 -Dioxane

MW-10-20211214

**Observations**

Well Observations: Good condition  
 Weather/Temperature: partly cloudy - 34°F  
 Sample description: clear  
 Free Product? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Sheen? yes \_\_\_\_\_ no X describe \_\_\_\_\_  
 Odor? yes \_\_\_\_\_ no X describe \_\_\_\_\_

NYSDEC Division of Environmental Remediation				<b>Contract No.</b> DEC Insp. – N/a DEC PM – Robert Strang Contractor Supt. – N/a Engineer PM – Matthew Hoskins Engineer Insp. – Matthew Schappert and Liz Alvut	
<b>Site Location: Preferred Electric Motors</b>					
<b>Weather Conditions</b>					
<b>General Description</b>	Clear	AM	Clear	PM	
<b>Temperature</b>	37°F	AM	38°F	PM	
<b>Wind</b>	Calm	AM	Calm	PM	
<b>Health &amp; Safety</b>					
<b>If any box below is checked "Yes", provide explanation under "Health &amp; Safety Comments".</b>					
Were there any changes to the Health & Safety Plan?				*Yes	No X NA
Were there any exceedances of the perimeter air monitoring reported on this date?				*Yes	No X NA
Were there any nuisance issues reported/observed on this date?				*Yes	No X NA
<b>Health &amp; Safety Comments</b>					
Site-specific HASP was followed accordingly					
<b>Summary of Work Performed</b>		Arrived at site:	<b>0900</b>	Departed Site:	<b>1500</b>
<p>TRC Engineers, Inc. (TRC) performed an annual site inspection and annual groundwater sampling event on Tuesday, November 15, 2022, of the Preferred Electric Motors site (Site) located at 42 Fernwood Avenue in Rochester, NY. The Site Inspection was performed to document general site conditions, including the site-wide cover (parking lot and building), the condition of groundwater monitoring wells, inspection of the off-site sub-slab depressurization system (SSDS), conduct a groundwater sampling event of the 7 monitoring wells, and general conformance with the Site Management Plan. The two off-site SSDS locations are at 40 Fernwood Avenue and 46-48 Fernwood Avenue, Rochester, NY.</p> <p>TRC was unable to gain access to the inside of 40 and 46-48 Fernwood Avenue for visual inspection of the SSDS. Both exterior components were in good shape and the fans were running.</p> <p>Overall, the Site was in good condition. No visible distress to the cover system was observed (i.e., cracking, rutting, deformation, potholes). TRC observed that MW-2 has a well lid with a missing bolt, and the curb box has a broken tab. MW-3 has two missing bolts and was filled with water above the top of the interior casing. MW-4 has a broken well cap that can be removed by hand, as well as completely broken concrete surrounding it. MW-7 has stripped bolts and was filled with water above the top of the interior casing. MW-5 was also filled with water due to loose or stripped bolts on the cap. TRC removed all water from the interior of the casings and determined that the locked well caps were secured to prevent any water from infiltrating the PVC wells. TRC recommends replacing and repairing all damaged well caps, including replacing the surface completion at MW-4.</p> <p>TRC collected groundwater samples from the groundwater monitoring wells following low flow purging and sampling procedures using peristaltic pumps and dedicated subbing. Water quality field parameters were measured utilizing a YSI-DSS Pro prior to sampling.</p> <p>The collected groundwater samples and associated quality control samples (i.e., blind duplicate, matrix spike and matrix spike duplicate, equipment blank, field blank, and trip blank) were relinquished following standard chain-of-custody procedures to PACE Analytical in Syracuse, New York. Groundwater samples from 7 wells were submitted for laboratory analysis by Method 8260C for TCL and TIC. The groundwater sample collected at MW-2 was also submitted for analysis by Method 8270 SIM for 1,4-Dioxane.</p>					
<b>Equipment/Material Tracking</b>					
<b>If any box below is checked "Yes", provide explanation under "Material Tracking Comments".</b>					
Were there any vehicles which did not display proper D.O.T numbers and placards?				*Yes	No NA X
Were there any vehicles which were not tarped?				* Yes	No NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?				* Yes	No NA X







<b>Project Schedule Comments</b>	
N/A	
<b>Issues Pending</b>	
N/A	
<b>Interaction with Public, Property Owners, Media, etc.</b>	
N/A	

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



Site Photographs (Descriptions Below)



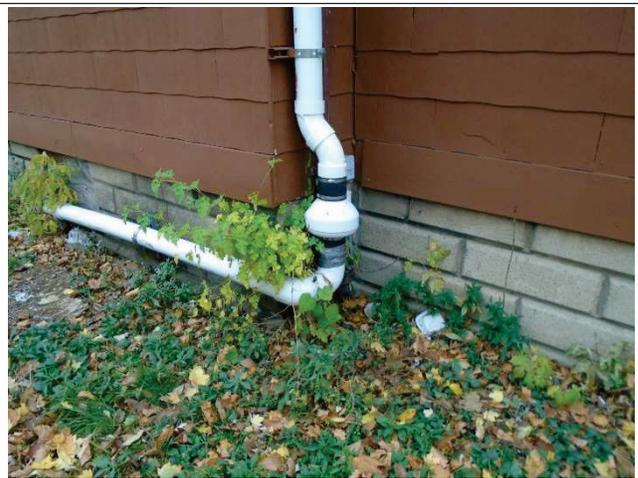
**Photo 1:** 42 Fernwood Avenue building and parking lot, facing north



**Photo 2:** MW-4 broken concrete and loose well cap, facing east



**Photo 3:** MW-9 location, facing south



**Photo 4:** SSDS fan and associated vent piping at 40 Fernwood Ave, facing south



**Photo 5:** SSDS fan and associated piping at 46-48 Fernwood Ave, facing south



**Photo 6:** MW-7 prior to removing water



**Photo 7:** MW-5 location, facing south



**Photo 8:** MW-10 location, facing south

<b>Comments</b>	
N/A	
<b>Site Inspector(s):</b> Matthew Schappert and Liz Alvut	<b>Date:</b> 11/15/2022

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



### DAILY HEALTH CHECKLIST

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

### REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<p>If Yes to <u>any</u> of 1-4 above:</p> <ul style="list-style-type: none"> <li>• If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry.</li> <li>• If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.</li> </ul>	Yes <input type="checkbox"/>	No <input type="checkbox"/>



Comments: N/A

**On-Site Waste Storage**

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

**NUISANCE CHECKLIST**

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



Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
If yes, has Contractor been notified?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<u>Comments:</u> N/A			

**RESILIENCE/GREEN REMEDIATION CHECKLIST**

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

\* BART – Best Available Retrofit Technology



## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	
PROJECT NUMBER	
SAMPLE ID <b>MW-9</b>	SAMPLE TIME <b>1425</b>

LOCATION ID	DATE
START TIME	END TIME
SITE NAME/NUMBER	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

WELL INTEGRITY

YES	NO	N/A
___	___	___
___	___	___
___	___	___
___	___	___

INITIAL DTW (BMP) <b>9.90</b> FT	FINAL DTW (BMP) <b>14.50</b> FT	PROT. CASING STICKUP (AGS) _____ FT	TOC/TOR DIFFERENCE _____ FT
WELL DEPTH (BMP) <b>21.90</b> FT	SCREEN LENGTH _____ FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN _____ FT	DRAWDOWN VOLUME _____ GAL	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL _____ GAL	TOTAL VOL. PURGED <b>2</b> GAL	DRAWDOWN/TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	BEGIN PURGING									
1330	1.46	100	14.9	1.032	7.04	0.65	9.32	21.0	18	
1335	1.87	100	14.9	1.033	7.04	0.52	9.44	25.4	18	
1340	2.27	100	14.9	1.030	7.03	0.51	17.44	30.2	18	
1345	2.27	100	14.7	1.027	7.03	0.55	34.47	29.5	18	
1350	3.00	100	15.0	1.025	7.00	0.61	30.28	16.3	18	
1355	3.58	100	15.2	1.027	7.01	0.63	29.71	7.8	18	
1400	4.11	100	15.4	1.032	7.01	0.61	25.10	-7.9	18	
1405	4.39	100	15.1	1.033	7.02	0.57	20.19	-9.7	18	
1410	4.58	100	14.9	1.037	7.02	0.56	15.60	-25.6	18	
1415	4.70	100	14.7	1.036	7.02	0.57	15.04	-39.6	18	
1420	4.70	100	13.5	1.040	7.03	0.57	15.31	-44.2	18	

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

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

**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<p><b>DECON FLUIDS USED</b></p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER Heron <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI <input checked="" type="checkbox"/> TURB. METER YSI <input checked="" type="checkbox"/> PUMP Pine Peri Pump <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

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

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED	YES <input type="checkbox"/>	NO <input type="checkbox"/>	NUMBER OF GALLONS GENERATED
NO-PURGE METHOD UTILIZED	YES <input type="checkbox"/>	NO <input type="checkbox"/>	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

**SKETCH/NOTES**

Sampler Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_

Checked By: Justin King Date: \_\_\_\_\_



**LOW FLOW GROUNDWATER SAMPLING RECORD**

PROJECT NAME	
PROJECT NUMBER	
SAMPLE ID <b>MW-3</b>	SAMPLE TIME <b>12 50</b>

LOCATION ID	DATE
START TIME	END TIME
SITE NAME/NUMBER	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

WELL INTEGRITY

YES	NO	N/A
---	---	---
---	---	---
---	---	---

INITIAL DTW (BMP) <b>12.03</b> FT	FINAL DTW (BMP) <b>14.13</b> FT	PROT. CASING STICKUP (AGS) _____ FT	TOC/TOR DIFFERENCE _____ FT
WELL DEPTH (BMP) <b>16.95</b> FT	SCREEN LENGTH _____ FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN _____ FT	DRAWDOWN VOLUME _____ GAL	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL _____ GAL	TOTAL VOL. PURGED _____ GAL	DRAWDOWN/TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<b>1150</b>	<b>BEGIN PURGING</b>									
<b>12:05</b>	<b>1.40</b>	<b>100</b>	<b>13.3</b>	<b>1.373</b>	<b>6.98</b>	<b>2.81</b>	<b>55.21</b>	<b>-6.0</b>		
<b>12:10</b>	<b>1.75</b>	<b>100</b>	<b>13.4</b>	<b>1.372</b>	<b>6.97</b>	<b>2.39</b>	<b>72.85</b>	<b>-19.4</b>		
<b>12:15</b>	<b>1.75</b>	<b>100</b>	<b>13.3</b>	<b>1.362</b>	<b>6.98</b>	<b>2.14</b>	<b>45.08</b>	<b>-23.3</b>		
<b>12:20</b>	<b>2.02</b>	<b>100</b>	<b>13.4</b>	<b>1.336</b>	<b>7.00</b>	<b>2.18</b>	<b>21.27</b>	<b>-35.0</b>		
<b>12:25</b>	<b>2.17</b>	<b>100</b>	<b>13.5</b>	<b>1.340</b>	<b>7.02</b>	<b>1.57</b>	<b>15.52</b>	<b>-48.7</b>		
<b>12:30</b>	<b>2.27</b>	<b>100</b>	<b>13.6</b>	<b>1.317</b>	<b>7.04</b>	<b>1.21</b>	<b>9.69</b>	<b>-59.0</b>		
<b>12:35</b>	<b>2.44</b>	<b>100</b>	<b>13.7</b>	<b>1.289</b>	<b>7.06</b>	<b>0.88</b>	<b>5.10</b>	<b>-76.7</b>		
<b>12:40</b>	<b>2.47</b>	<b>100</b>	<b>13.4</b>	<b>1.283</b>	<b>7.06</b>	<b>0.85</b>	<b>5.55</b>	<b>-80.7</b>		
<b>12:45</b>	<b>2.77</b>	<b>100</b>	<b>13.2</b>	<b>1.277</b>	<b>7.07</b>	<b>0.81</b>	<b>4.21</b>	<b>-85.9</b>		

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

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

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>	<b>DECON FLUIDS USED</b>	<b>TUBING/PUMP/BLADDER MATERIALS</b>	<b>EQUIPMENT USED</b>
<input type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> FLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> WL METER Heron <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI <input checked="" type="checkbox"/> TURB. METER YSI <input checked="" type="checkbox"/> PUMP Pine Peri Pump <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

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

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED  YES  NO

NO-PURGE METHOD UTILIZED  YES  NO

NUMBER OF GALLONS GENERATED **1.5**

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

**SKETCH/NOTES**

Sampler Signature: \_\_\_\_\_ Print Name

Checked By: Justin King Date: \_\_\_\_\_



**LOW FLOW GROUNDWATER SAMPLING RECORD**

PROJECT NAME	
PROJECT NUMBER	
SAMPLE ID <b>MW-5</b>	SAMPLE TIME <b>11:20</b>

LOCATION ID	DATE
START TIME	END TIME
SITE NAME/NUMBER	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

WELL INTEGRITY

YES	NO	N/A
___	___	___
___	___	___
___	___	___

INITIAL DTW (BMP) <b>8.33</b> FT	FINAL DTW (BMP) <b>9.15</b> FT	PROT. CASING STICKUP (AGS) _____ FT	TOC/TOR DIFFERENCE _____ FT
WELL DEPTH (BMP) <b>15.85</b> FT	SCREEN LENGTH _____ FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN _____ FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) _____ GAL	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) _____ GAL	TOTAL VOL. PURGED _____ GAL	DRAWDOWN/TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<b>10 35</b>	<b>BEGIN PURGING</b>									
<b>1045</b>	<b>100</b>	<b>100</b>	<b>12.3</b>	<b>0.911</b>	<b>6.99</b>	<b>1.80</b>	<b>17.96</b>	<b>-2.7</b>		
<b>1050</b>	<b>100</b>	<b>100</b>	<b>12.6</b>	<del>1.20</del> <b>0.951</b>	<b>7.00</b>	<b>0.99</b>	<b>12.00</b>	<b>-29.5</b>		
<b>1055</b>	<b>1.02</b>	<b>100</b>	<b>12.8</b>	<b>0.954</b>	<b>7.02</b>	<b>0.85</b>	<b>10.52</b>	<b>-38.0</b>		
<b>1100</b>	<b>0.87</b>	<b>100</b>	<b>12.1</b>	<b>0.968</b>	<b>7.04</b>	<b>0.69</b>	<b>6.95</b>	<b>-49.3</b>		
<b>1105</b>	<b>0.84</b>	<b>100</b>	<b>12.2</b>	<b>0.966</b>	<b>7.04</b>	<b>0.67</b>	<b>6.17</b>	<b>-49.5</b>		
<b>1110</b>	<b>0.81</b>	<b>100</b>	<b>12.0</b>	<b>0.976</b>	<b>7.05</b>	<b>0.62</b>	<b>5.07</b>	<b>-52.7</b>		
<b>1115</b>	<b>0.81</b>	<b>100</b>	<b>12.1</b>	<b>0.972</b>	<b>7.05</b>	<b>0.60</b>	<b>4.39</b>	<b>-53.4</b>		

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

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

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>		<b>DECON FLUIDS USED</b>		<b>TUBING/PUMP/BLADDER MATERIALS</b>		<b>EQUIPMENT USED</b>	
<input type="checkbox"/> PERISTALTIC	<input type="checkbox"/> LIQUINOX	<input type="checkbox"/> SILICON TUBING	<input checked="" type="checkbox"/> WL METER Heron				
<input type="checkbox"/> SUBMERSIBLE	<input type="checkbox"/> DEIONIZED WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PID				
<input type="checkbox"/> BLADDER	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON LINED TUBING	<input checked="" type="checkbox"/> WQ METER YSI				
<input type="checkbox"/> WATERA	<input type="checkbox"/> NITRIC ACID	<input type="checkbox"/> HDPE TUBING	<input checked="" type="checkbox"/> TURB. METER YSI				
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input type="checkbox"/> LDPE TUBING	<input checked="" type="checkbox"/> PUMP Pine Peri Pump				
<input type="checkbox"/> OTHER	<input type="checkbox"/> METHANOL	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER				
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER				

**ANALYTICAL PARAMETERS**

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

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED **2**

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

**SKETCH/NOTES**

MW-5  
MW-5-MS  
MW-5-MSD

Sampler Signature:

Print Name

Checked By: Justin King

Date:







**LOW FLOW GROUNDWATER SAMPLING RECORD**

PROJECT NAME	
PROJECT NUMBER	
SAMPLE ID <i>Mw-4</i>	SAMPLE TIME <i>1150</i>

LOCATION ID	DATE
START TIME	END TIME
SITE NAME/NUMBER	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

**WELL INTEGRITY**

YES	NO	N/A
___	___	___
___	___	___
___	___	___
___	___	___

INITIAL DTW (BMP) <i>11.11</i> FT	FINAL DTW (BMP) <i>11.11</i> FT	PROT. CASING STICKUP (AGS) _____ FT	TOC/TOR DIFFERENCE _____ FT
WELL DEPTH (BMP) <i>16.76</i> FT	SCREEN LENGTH _____ FT	PID AMBIENT AIR _____ PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN _____ FT	DRAWDOWN VOLUME _____ GAL	PID WELL MOUTH _____ PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL _____ GAL	TOTAL VOL. PURGED <i>0.5</i> GAL	DRAWDOWN/TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI

(column X well diameter squared X 0.041) (final DTW - initial DTW X well diam. squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>1120</i>	<b>BEGIN PURGING</b>									
<i>1125</i>	<i>0</i>	<i>100</i>	<i>13.3</i>	<i>2.107</i>	<i>7.09</i>	<i>6.73</i>	<i>11.61</i>	<i>87.0</i>	<i>14</i>	
<i>1130</i>	<i>0</i>	<i>100</i>	<i>12.3</i>	<i>2.235</i>	<i>7.09</i>	<i>6.52</i>	<i>9.40</i>	<i>52.7</i>	<i>14</i>	
<i>1135</i>	<i>0</i>	<i>100</i>	<i>12.3</i>	<i>2.236</i>	<i>7.10</i>	<i>6.29</i>	<i>6.51</i>	<i>45.2</i>	<i>14</i>	
<i>1140</i>	<i>0</i>	<i>100</i>	<i>12.6</i>	<i>2.242</i>	<i>7.11</i>	<i>6.23</i>	<i>5.67</i>	<i>40.5</i>	<i>14</i>	
<i>1145</i>	<i>0</i>	<i>100</i>	<i>12.4</i>	<i>2.248</i>	<i>7.11</i>	<i>6.12</i>	<i>4.77</i>	<i>39.7</i>	<i>14</i>	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

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

EQUIPMENT DOCUMENTATION			
TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
<input type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER
<input type="checkbox"/> WATERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER			<input checked="" type="checkbox"/> WL METER Heron <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI <input checked="" type="checkbox"/> TURB. METER YSI <input checked="" type="checkbox"/> PUMP Fine Peri Pump <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____

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

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED \_\_\_\_\_

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

Sampler Signature: \_\_\_\_\_ Print Name \_\_\_\_\_

Checked By: Justin King Date: \_\_\_\_\_

**SKETCH/NOTES**

*Mw-4*



**LOW FLOW GROUNDWATER SAMPLING RECORD**

PROJECT NAME	
PROJECT NUMBER	
SAMPLE ID <b>MW-7</b>	SAMPLE TIME <b>1110</b>

LOCATION ID	DATE
START TIME	END TIME
SITE NAME/NUMBER	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

WELL INTEGRITY

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

INITIAL DTW (BMP)	<b>10.31</b> FT	FINAL DTW (BMP)	<del>10.31</del> <b>11.01</b> FT	PROT. CASING STICKUP (AGS)	_____ FT	TOC/TOR DIFFERENCE	_____ FT
WELL DEPTH (BMP)	<b>19.45</b> FT	SCREEN LENGTH	_____ FT	PID AMBIENT AIR	_____ PPM	REFILL TIMER SETTING	_____ SEC
WATER COLUMN	_____ FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	_____ GAL	PID WELL MOUTH	_____ PPM	DISCHARGE TIMER SETTING	_____ SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	_____ GAL	TOTAL VOL. PURGED	<b>1</b> GAL	DRAWDOWN/ TOTAL PURGED	_____	PRESSURE TO PUMP	_____ PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<b>1040</b>	<b>BEGIN PURGING</b>									
<b>1045</b>	<b>0.4</b>	<b>150</b>	<b>12.0</b>	<b>1.853</b>	<b>6.96</b>	<b>5.26</b>	<b>7.47</b>	<b>98.5</b>	<b>15</b>	
<b>1050</b>	<b>0.3</b>	<b>150</b>	<b>12.4</b>	<b>1.885</b>	<b>7.03</b>	<b>5.31</b>	<b>21.78</b>	<b>62.7</b>	<b>15</b>	
<b>1055</b>	<b>0</b>	<b>100</b>	<b>12.2</b>	<b>1.887</b>	<b>7.03</b>	<b>5.44</b>	<b>20.12</b>	<b>56.2</b>	<b>15</b>	
<b>1100</b>	<b>0</b>	<b>100</b>	<b>12.1</b>	<b>1.893</b>	<b>7.04</b>	<b>5.42</b>	<b>19.76</b>	<b>51.3</b>	<b>15</b>	
<b>1105</b>	<b>0</b>	<b>100</b>	<b>12.1</b>	<b>1.890</b>	<b>7.05</b>	<b>5.39</b>	<b>19.57</b>	<b>50.7</b>	<b>15</b>	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

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

**EQUIPMENT DOCUMENTATION**

<input type="checkbox"/> PERISTALTIC	<input type="checkbox"/> LIQUINOX	<input type="checkbox"/> SILICON TUBING	<input type="checkbox"/> S. STEEL PUMP MATERIAL
<input type="checkbox"/> SUBMERSIBLE BLADDER	<input type="checkbox"/> DEIONIZED WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PVC PUMP MATERIAL
<input type="checkbox"/> WATERA	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON LINED TUBING	<input type="checkbox"/> GEOPROBE SCREEN
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITRIC ACID	<input type="checkbox"/> HDPE TUBING	<input type="checkbox"/> TEFLON BLADDER
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input type="checkbox"/> LDPE TUBING	<input type="checkbox"/> OTHER
	<input type="checkbox"/> METHANOL	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

**EQUIPMENT USED**

<input checked="" type="checkbox"/>	WL METER	Heron
<input type="checkbox"/>	PID	
<input checked="" type="checkbox"/>	WQ METER	YSI
<input checked="" type="checkbox"/>	TURB. METER	YSI
<input checked="" type="checkbox"/>	PUMP	Pine Peri Pump
<input type="checkbox"/>	OTHER	
<input type="checkbox"/>	FILTERS	NO. _____ TYPE _____

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

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED \_\_\_\_\_

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

**SKETCH/NOTES**

**MW-7**  
**DU? - 01**

Sampler Signature: \_\_\_\_\_ Print Name \_\_\_\_\_

Checked By: Justin King Date: \_\_\_\_\_











**APPENDIX E**

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-1_111919	<b>SAMPLE TIME</b> 1340

<b>LOCATION ID</b> MW-1	<b>DATE</b> 11/19/2019
<b>START TIME</b> 1300	<b>END TIME</b> 1140
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**

YES	NO	N/A
CAP	<input checked="" type="checkbox"/>	_____
CASING	<input checked="" type="checkbox"/>	_____
LOCKED	_____	<input checked="" type="checkbox"/>
COLLAR	<input checked="" type="checkbox"/>	_____

<b>INITIAL DTW (BMP)</b>	5.29 FT	<b>FINAL DTW (BMP)</b>	5.47 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	6 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	0.71 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b>	0.12 GAL	<b>TOTAL VOL. PURGED</b>	0.78 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1300	<b>BEGIN PURGING</b>									
1305	5.35	100	9.83	1.040	6.71	0.00	16.9	-185	-	
1310	5.4	100	9.89	1.02	6.67	0.00	16.6	-183	-	
1315	5.44	100	10.2	1.01	6.75	0.00	16.9	-191	-	
1320	5.46	100	10.18	1.01	6.89	0.00	16.7	-197	-	
1325	5.46	100	10.29	0.998	6.96	0.00	17.3	-202	-	
1330	5.47	100	10.31	0.996	6.98	0.00	17.7	-202	-	
1335	5.49	100	10.31	0.995	6.98	0.00	17.8	-202	-	
<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>									<small>TEMP.: nearest degree (ex. 10.1 = 10)                  COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)                  pH: nearest tenth (ex. 5.53 = 5.5)                  DO: nearest tenth (ex. 3.51 = 3.5)                  TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)                  ORP: 2 SF (44.1 = 44, 191 = 190)</small>	
NM: Not measured			<b>10.30</b>	<b>0.996</b>	<b>6.97</b>	<b>0.00</b>	<b>17.6</b>	<b>-202</b>		

<b>EQUIPMENT DOCUMENTATION</b>			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL. METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS								
	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOCs	8620D	No	HCl	120 mL	1340	YES	MW-1_111919
X	PFAS	537 Modified	No			1340	YES	MW-1_111919
X	1,4-Dioxane	8270D GM/MS SIM	No			1340	YES	MW-1_111919

**PURGE OBSERVATIONS**

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

NUMBER OF GALLONS GENERATED   0.78  
If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

DUP COLLECTED FOR PFAS, 1,4-DIOXANE, VOCs  
 CLEAR TO LIGHT TAN COLOR  
 NO FREE PRODUCT  
 NO SHEEN  
 SLIGHT EGGLIKE ODOR

Sampler Signature: \_\_\_\_\_      Print Name Skylar Haas, Gunther Schnorr, D&B  
  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Preferred Electric Motors, Inc.	
PROJECT NUMBER NYSDEC Site No. 828106	
SAMPLE ID MW-2_111919	SAMPLE TIME 1225

LOCATION ID MW-2	DATE 11/19/2019
START TIME 1125	END TIME 1225
SITE NAME/NUMBER Preferred Electric Motors, Inc.	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_ NA

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

**WELL INTEGRITY**

	YES	NO	N/A
CAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LOCKED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COLLAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 7.40 FT	FINAL DTW (BMP) 11.82 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE - FT
WELL DEPTH (BMP) 24.57 FT	SCREEN LENGTH 10.0 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 17.17 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) NA GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 2.82 GAL	TOTAL VOL. PURGED 2.704 GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/TOTAL PURGED NA	PRESSURE TO PUMP - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1125	<b>BEGIN PURGING</b>									
1130	7.40	208	16.53	1.02	8.55	20.24	13.5	-143	-	
1135	8.25	208	16.17	1.03	8.98	21.86	7.3	-293	-	
1140	9.07	208	15.78	1.05	9.06	21.42	0.4	-272	-	
1145	9.50	208	15.62	1.06	9.60	20.46	0.0	-288	-	
1150	9.95	208	15.53	1.07	10.13	19.97	0.0	-297	-	
1155	10.25	208	15.38	1.29	9.45	11.62	0.2	-299	-	
1200	10.46	208	15.27	1.28	9.04	11.02	0.3	-301	-	
1205	10.90	208	14.99	1.30	8.78	10.59	1.8	-304	-	
1210	11.18	208	14.85	1.33	8.80	10.29	18.4	-305	-	
1215	11.36	208	14.77	1.37	9.08	10.22	16.6	-307	-	
1220	11.82	208	14.7	1.40	9.39	10.26	16.4	-309	-	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

TEMP: nearest degree (ex. 10.1 = 10) COND: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	14.77	1.367	9.09	10.26	17.1	-307
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**EQUIPMENT DOCUMENTATION**

TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	DECON FLUIDS USED <input type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	TUBING/PUMP/BLADDER MATERIALS <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	EQUIPMENT USED <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	###	NO	MW-2 111919
<input checked="" type="checkbox"/> PFAS	537 Modified	No	HNO3	250 ml	###	NO	MW-2 111919
<input checked="" type="checkbox"/> 1,4-Dioxane	8270D GM/MS SIM	No	NaOH	250 ml	###	NO	MW-2 111919

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED 2.704

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

**SKETCH/NOTES**

NO FREE PRODUCT  
NO SHEEN  
SULFUR ODOR

Sampler Signature: \_\_\_\_\_ Print Name Skylar Haas, Gunther Schnorr, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> NA	<b>SAMPLE TIME</b> NA

<b>LOCATION ID</b> MW-3	<b>DATE</b> 11/19/2019
<b>START TIME</b> NA	<b>END TIME</b> NA
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="9.12"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="NA"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="9.35"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="9.6"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="0.23"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	<input type="text" value="0.04"/> GAL	<b>TOTAL VOL. PURGED</b> (mL per minute X total minutes X 0.00026 gal/mL)	<input oz")"="" type="text" value("&lt;5=""/>	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		

**BEGIN PURGING**

**NOT SAMPLED - INSUFFICIENT WATER COLUMN**

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

NM: Not measured  
 TEMP.: nearest degree (ex. 10.1 = 10)  
 COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)  
 pH: nearest tenth (ex. 5.53 = 5.5)  
 DO: nearest tenth (ex. 3.51 = 3.5)  
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)  
 ORP: 2 SF (44.1 = 44, 191 = 190)

**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>DECON FLUIDS USED</b></p> <input type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
NONE							

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED     
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

NOT SAMPLED - INSUFFICIENT VOLUME

Sampler Signature: \_\_\_\_\_  
 Checked By: \_\_\_\_\_  
 Print Name Skylar Haas, Gunther Schnorr, D&B  
 Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-4_112019	<b>SAMPLE TIME</b> 1130

<b>LOCATION ID</b> MW-4	<b>DATE</b> 11/20/2019
<b>START TIME</b> 1100	<b>END TIME</b> 1130
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="10.15"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="10.97"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="12.42"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="10.0"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="2.27"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b> <small>(column X well diameter squared X 0.041)</small>	<input type="text" value="0.37"/> GAL	<b>TOTAL VOL. PURGED</b> <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<input type="text" value="0.9815"/> GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1100	<b>BEGIN PURGING</b>									
1105	10.80	151	12.36	1.21	7.17	8.95	51.4	103	-	
1110	11.50	151	12.24	1.29	7.00	8.13	13	120	-	
1115	10.98	151	11.06	1.29	6.96	7.69	9.3	122	-	
1120	10.95	151	10.62	1.30	6.95	7.03	5.7	120	-	
1125	10.95	151	10.70	1.30	6.95	6.62	4.5	120	-	
1130	10.97	151	10.71	1.32	6.93	6.60	4.2	123	-	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))</b>								TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)		
NM: Not measured		<b>10.68</b>	<b>1.307</b>	<b>6.94</b>	<b>6.75</b>	<b>4.8</b>	<b>121</b>			

EQUIPMENT DOCUMENTATION			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	###	NO	MW-4_112019

<b>PURGE OBSERVATIONS</b> PURGE WATER CONTAINERIZED   YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NO-PURGE METHOD UTILIZED   YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER OF GALLONS GENERATED <u>0.9815</u> If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	<b>SKETCH/NOTES</b> NO FREE PRODUCT NO SHEEN NO ODOR  Sampler Signature: _____      Print Name Skylar Haas, Gunther Schnorr, D&B  Checked By: _____      Date: _____
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# LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-5_112019	<b>SAMPLE TIME</b> 0915

<b>LOCATION ID</b> MW-5	<b>DATE</b> 11/20/2019
<b>START TIME</b> 0825	<b>END TIME</b> 0915
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 7.85 FT	<b>FINAL DTW (BMP)</b> 8.96 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 14.2 FT	<b>SCREEN LENGTH</b> 9.7 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 6.35 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.04 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 1.4664 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
0825	<b>BEGIN PURGING</b>									
0830	8.22	141	10.36	0.820	7.48	8.61	41.5	57	-	
0835	8.31	141	10.56	0.842	7.02	7.21	30.5	59	-	
0840	8.50	141	11.28	0.838	6.81	5.67	15.1	64	-	
0845	8.65	141	11.48	0.843	6.67	4.85	8.6	63	-	
0850	8.70	141	11.53	0.842	6.76	4.59	6.0	62	-	
0855	8.80	141	11.60	0.840	6.67	4.21	2.0	57	-	
0900	8.85	141	11.64	0.839	6.80	4.50	0.0	45	-	
905	8.92	141	11.70	0.837	6.80	4.45	0.0	43	-	
910	8.96	141	11.72	0.835	6.79	4.02	0.6	39	-	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>								TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)		
NM: Not measured		<b>11.69</b>	<b>0.837</b>	<b>6.80</b>	<b>4.32</b>	<b>0.2</b>	<b>42</b>			

<b>EQUIPMENT DOCUMENTATION</b>			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	0915	YES	MW-5 112019
<input checked="" type="checkbox"/> PFAS	537 Modified	No	HNO3	250 ml	0915	YES	MW-5 112019
<input checked="" type="checkbox"/> 1,4-Dioxane	8270D GM/MS SIM	No	NaOH	250 ml	0915	YES	MW-5 112019

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   1.4664  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 MS/MSD COLLECTED FOR VOCs, 1,4-DIOXANE, PFAS  
 FIELD BLANK COLLECTED  
 NO FREE PRODUCT  
 NO SHEEN  
 NO ODOR

Sampler Signature: \_\_\_\_\_   Print Name Skylar Haas, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_   Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Preferred Electric Motors, Inc.	
PROJECT NUMBER NYSDEC Site No. 828106	
SAMPLE ID MW-7_112019	SAMPLE TIME 1205

LOCATION ID MW-7	DATE 11/20/2019
START TIME 1105	END TIME 1205
SITE NAME/NUMBER Preferred Electric Motors, Inc.	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_ NA

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

**WELL INTEGRITY**

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 8.71 FT	FINAL DTW (BMP) 13.08 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE - FT
WELL DEPTH (BMP) 19.46 FT	SCREEN LENGTH 10.0 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 10.75 FT	DRAWDOWN VOLUME NA GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.76 GAL	TOTAL VOL. PURGED (final DTW - initial DTW X well diam. squared X 0.041) 2.535 GAL	DRAWDOWN/TOTAL PURGED (mL per minute X total minutes X 0.00026 gal/mL) NA	PRESSURE TO PUMP - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1105	<b>BEGIN PURGING</b>									
1110	9.47	150	10.54	0.793	7.53	6.74	37.8	-173	-	
1115	9.97	150	11.12	0.787	7.43	4.92	25.4	-170	-	
1120	10.26	150	11.36	0.796	7.43	3.91	3.0	-161	-	
1125	10.70	150	11.51	0.797	7.43	3.51	2.6	-147	-	
1130	11.05	150	11.60	0.804	7.40	3.06	4.7	-128	-	
1135	11.38	150	11.68	0.806	7.37	2.84	5.1	-111	-	
1140	11.67	150	11.71	0.816	7.36	2.28	6.3	-98	-	
1145	12.00	150	11.75	0.821	7.37	1.82	13.5	-85	-	
1150	12.24	150	11.78	0.822	7.37	1.56	46.4	-81	-	
1155	12.57	150	11.83	0.82	7.37	1.09	23.8	-66	-	
1200	12.87	150	11.84	0.82	7.37	1.04	24.9	-59	-	
1205	13.08	150	11.84	0.823	7.36	1.02	2.51	-56	-	

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

NM: Not measured

**11.84      0.823      7.37      1.05      17.1      -60**

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

**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>DECON FLUIDS USED</b></p> <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	###	NO	MW-7_112019

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED 2.535

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

**SKETCH/NOTES**

TAN IN COLOR  
NO FREE PRODUCT  
NO SHEEN  
NO ODOR

Sampler Signature: \_\_\_\_\_ Print Name Skylar Haas, Gunther Schnorr, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Preferred Electric Motors, Inc.	
PROJECT NUMBER NYSDEC Site No. 828106	
SAMPLE ID MW-9_112019	SAMPLE TIME 0945

LOCATION ID MW-9	DATE 11/20/2019
START TIME 0840	END TIME 0945
SITE NAME/NUMBER Preferred Electric Motors, Inc.	PAGE 1 OF 1

WELL DIAMETER (INCHES)  1  2  4  6  8  OTHER \_\_\_\_\_

TUBING ID (INCHES)  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_ NA

MEASUREMENT POINT (MP)  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

**WELL INTEGRITY**

	YES	NO	N/A
CAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LOCKED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COLLAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 9.82 FT	FINAL DTW (BMP) 13.92 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE - FT
WELL DEPTH (BMP) 21.95 FT	SCREEN LENGTH 10.0 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 12.13 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) NA GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.99 GAL	TOTAL VOL. PURGED 1 GAL	DRAWDOWN/TOTAL PURGED NA	PRESSURE TO PUMP - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0850	<b>BEGIN PURGING</b>									
0855	10.19	200	12.85	1.10	6.83	0.68	107.0	-335	-	
0900	11.70	175	12.95	1.10	6.94	0.00	69.9	-351	-	
0910	12.00	150	12.89	1.11	7.02	0.00	27.3	-358	-	
0905	NM									
0915	12.35	150	12.73	1.13	7.02	0.00	19.6	-362	-	
0920	12.65	NM	12.86	1.17	7.07	0.00	16.4	-370	-	
0925	13.91	NM	12.90	1.19	7.12	0.00	14.4	-376	-	
0930	13.21	NM	13.00	1.22	7.11	0.00	12.3	-378	-	
0935	13.50	NM	13.06	1.24	7.11	0.00	10.5	-381	-	
0940	13.73	NM	13.14	1.26	7.10	0.00	9.6	-383	-	
0945	13.92	NM	13.16	1.27	7.11	0.00	9.5	NM	-	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

NM: Not measured 13.12 1.257 7.11 0.00 9.9 -382										TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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**EQUIPMENT DOCUMENTATION**

TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	DECON FLUIDS USED <input type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	TUBING/PUMP/BLADDER MATERIALS <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	EQUIPMENT USED <input checked="" type="checkbox"/> WL METER HERON DIPPER T/SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	0945	NO	MW-9 112019
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO

NO-PURGE METHOD UTILIZED YES  NO

NUMBER OF GALLONS GENERATED 1

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

**SKETCH/NOTES**

CLEAR COLOR  
NO FREE PRODUCT  
NO SHEEN  
SLIGHT EGG-LIKE ODOR

Sampler Signature: \_\_\_\_\_ Print Name Skylar Haas, Gunther Schnorr, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-10_111919	<b>SAMPLE TIME</b> 1500

<b>LOCATION ID</b> MW-10	<b>DATE</b> 11/19/2019
<b>START TIME</b> 1425	<b>END TIME</b> 1500
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	9.81 FT	<b>FINAL DTW (BMP)</b>	10.12 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	19.7 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	9.89 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b>	1.62 GAL	<b>TOTAL VOL. PURGED</b>	0.9828 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

(column X well diameter squared X 0.041)      (final DTW - initial DTW X well diam. squared X 0.041)      (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1425	<b>BEGIN PURGING</b>									
1430	10.10	126	13.30	2.16	8.52	6.80	0.0	-102	-	
1435	10.10	126	14.54	1.84	8.18	5.77	0.0	-103	-	
1440	10.11	126	14.50	1.65	8.06	5.27	0.0	-91	-	
1445	10.12	126	14.83	1.53	7.78	4.33	0.0	-72	-	
1450	10.12	126	14.85	1.54	7.71	4.09	0.0	-53	-	
1455	10.12	126	14.83	1.54	7.66	3.94	0.0	-50	-	
1500	10.12	126	14.83	1.52	7.65	3.93	0.0	-54	-	

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

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

NM: Not measured	<b>14.84</b>	<b>1.533</b>	<b>7.67</b>	<b>3.99</b>	<b>0.0</b>	<b>-52</b>
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EQUIPMENT DOCUMENTATION		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
<input checked="" type="checkbox"/> PERISTALTIC	<input type="checkbox"/> LIQUINOX	<input type="checkbox"/> SILICON TUBING	<input type="checkbox"/> S. STEEL PUMP MATERIAL	<input checked="" type="checkbox"/> WL. METER	HERON DIPPER T/SOLINST MODEL 101		
<input type="checkbox"/> SUBMERSIBLE	<input checked="" type="checkbox"/> DEIONIZED WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PVC PUMP MATERIAL	<input type="checkbox"/> PID	_____		
<input type="checkbox"/> BLADDER	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON LINED TUBING	<input type="checkbox"/> GEOPROBE SCREEN	<input checked="" type="checkbox"/> WQ METER	HORIBA U-52		
<input type="checkbox"/> WATTERA	<input type="checkbox"/> NITRIC ACID	<input type="checkbox"/> HDPE TUBING	<input type="checkbox"/> TEFLON BLADDER	<input type="checkbox"/> TURB. METER	_____		
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input checked="" type="checkbox"/> LDPE TUBING	<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> PUMP	GEOPUMP PERISTALTIC PUMP		
<input type="checkbox"/> OTHER	<input type="checkbox"/> METHANOL	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	_____		
	<input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	_____		
				<input type="checkbox"/> FILTERS	NO.	TYPE	_____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620D	No	HCl	120 mL	###	NO	MW-10_111919

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.9828  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_      Print Name Skylar Haas, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> NA	<b>SAMPLE TIME</b> NA

<b>LOCATION ID</b> MW-1	<b>DATE</b> 12/15/2020
<b>START TIME</b> NA	<b>END TIME</b> NA
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA \_\_\_\_\_  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**

	YES	NO	N/A
CAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LOCKED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COLLAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>INITIAL DTW (BMP)</b> DRY FT	<b>FINAL DTW (BMP)</b> 10.12 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 5.89 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> #VALUE! FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 0 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
<b>BEGIN PURGING</b>										
<b>NOT SAMPLED - INSUFFICIENT WATER COLUMN</b>										
<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>										
<small>NM: Not measured</small>										<small>TEMP.: nearest degree (ex. 10.1 = 10)</small> <small>COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)</small> <small>pH: nearest tenth (ex. 5.53 = 5.5)</small> <small>DO: nearest tenth (ex. 3.51 = 3.5)</small> <small>TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)</small> <small>ORP: 2 SF (44.1 = 44, 191 = 190)</small>

**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>DECON FLUIDS USED</b></p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
NONE							

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

DRY - NOT SAMPLED

Sampler Signature:

Print Name Tracy Garland, Gunther Schnorr, D&B

Checked By:

Date:



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-2_20201215	<b>SAMPLE TIME</b> 1245

<b>LOCATION ID</b> MW-2	<b>DATE</b> 12/15/2020
<b>START TIME</b> 1210	<b>END TIME</b> 1245
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 7.54 FT	<b>FINAL DTW (BMP)</b> 10.35 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 24.39 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 16.85 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 2.76 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 1.17 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1210	<b>BEGIN PURGING</b>									
1215	8.50	~150	12.91	1.28	5.85	3.02	9.3	-69	-	
1220	8.71	~150	13.37	1.27	6.10	1.10	8.7	-98	-	
1225	9.02	~150	13.31	1.28	6.36	0.76	8.1	-117	-	
1230	9.42	~150	13.21	1.29	6.51	0.50	3.8	-130	-	
1235	9.85	~150	13.40	1.29	6.58	0.35	0.3	-140	-	
1240	10.10	~150	13.28	1.29	6.61	0.29	0.1	-143	-	
1245	10.35	~150	13.24	1.30	6.62	0.28	0.3	-146	-	

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

TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	<b>13.31</b>	<b>1.293</b>	<b>6.60</b>	<b>0.31</b>	<b>0.2</b>	<b>-143</b>
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NM: Not measured

<b>EQUIPMENT DOCUMENTATION</b>			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-2_20201215

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   1.17  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 MISSING ONE TAB OUT OF 2. BOLT IS GETTING STRIPPED.  
 CLEAR COLOR, SLIGHTLY EGG-LIKE ODOR/SWAMPY  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_   Print Name Tracy Garland, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_   Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-3_20201216	<b>SAMPLE TIME</b> 1220

<b>LOCATION ID</b> MW-2	<b>DATE</b> 12/16/2020
<b>START TIME</b> 1130	<b>END TIME</b> 1220
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 12.00 FT	<b>FINAL DTW (BMP)</b> 15.35 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 16.82 FT	<b>SCREEN LENGTH</b> 9.6 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 4.82 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 0.79 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> NM GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1130	<b>BEGIN PURGING</b>									
1135	12.85	NM	11.32	1.55	6.68	5.56	55.0 *	124	-	
1140	13.75	NM	12.93	1.48	6.67	4.01	33.0	102	-	
1145	14.03	NM	11.99	1.48	6.79	2.71	207	-59	-	
1150	NM									
1155	14.05	NM	12.65	1.50	6.75	2.52	111	-61	-	
1200	14.43	NM	13.02	1.47	6.72	1.85	68.5	-87	-	
1205	14.70	NM	12.90	1.44	6.72	1.58	34.9	-102	-	
1210	15.00	NM	12.90	1.41	6.73	1.55	12.0	-114	-	
1215	15.20	NM	12.98	1.39	6.73	1.55	6.5	-117	-	
1220	15.35	NM	12.97	1.38	6.73	1.52	5.0	-119	-	

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

NM: Not measured

**12.95      1.393      6.73      1.54      7.8      -117**

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

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-3 20201216

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   NM  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Sampler Signature: \_\_\_\_\_      Print Name Tracy Garland, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_

**SKETCH/NOTES**  
 \* TURBIDITY READING MAY NOT BE ACCURATE, WATER IS CLEAR - PUMP LOST SUCTION FOR NO APPARENT REASON.  
 NO BOLTS ON WELL COVER, ONE TAB BROKEN, RUST COLOR RESIDUE ON PROBE & TAPE.  
 NO SHEEN  
 NO FREE PRODUCT  
 NO SHEEN



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-4_20201216	<b>SAMPLE TIME</b> 1220

<b>LOCATION ID</b> MW-4	<b>DATE</b> 12/16/2020
<b>START TIME</b> 0935	<b>END TIME</b> 1320
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 11.80 FT	<b>FINAL DTW (BMP)</b> 15.35 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 15.78 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 3.98 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 0.65 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> NM GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0935	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
<b>BEGIN PURGING</b>										
0940	12.60	250	10.79	1.39	6.77	9.19	137.0	110	-	
0945	13.48	150	11.01	1.37	6.85	8.92	114.0	93	-	
0950	13.70	NM	10.72	1.37	6.89	2.32	123	72	-	
0955	13.75	NM	12.25	1.38	6.90	1.96	101	71	-	
1000	TUBING PLUGGED WITH ROOT-LIKE MATERIAL - D&B PROCEEDS WITH NO PURGE SAMPLE FROM UPPER INTERVAL @ 1320								-	

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

NM: Not measured NA: Not available	NA	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)							
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**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>S. STEEL PUMP MATERIAL</b> <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-4_20201216

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   \_\_\_\_\_ NM  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

CONCRETE PAD ~3" ELEVATED ABOVE DRIVEWAY/CRACKED  
 LIGHT BROWN COLOR WITH PARTICULATES  
 TUBING CLOGGED WITH ROOTS, D&B ATTEMPTED TO MOVE INTAKE HEIGHT UNSUCCESSFULLY  
 NO PURGE SAMPLE COLLECTED  
 NO SHEEN  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_ Print Name Tracy Garland, Gunther Schnorr, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Preferred Electric Motors, Inc.	
PROJECT NUMBER NYSDEC Site No. 828106	
SAMPLE ID MW-5_20201216	SAMPLE TIME 1040

LOCATION ID MW-5	DATE 12/16/2020
START TIME 0855	END TIME 1040
SITE NAME/NUMBER Preferred Electric Motors, Inc.	PAGE 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 8.44 FT	FINAL DTW (BMP) 10.40 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE - FT
WELL DEPTH (BMP) 16.50 FT	SCREEN LENGTH 9.7 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 8.06 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) NA GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.32 GAL	TOTAL VOL. PURGED 3.926 GAL	DRAWDOWN/ TOTAL PURGED NA	PRESSURE TO PUMP - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS	
0855	<b>BEGIN PURGING</b>										
0900	NM	151	PURGED 0900-0945 - WQ PARAMETERS NOT MEASURED DUE TO FREEZING LINES							-	
0950	9.55	151	10.61	1.15	6.84	1.43	5.0	-42	-		
0955	9.61	151	10.53	1.15	6.84	1.23	2.8	-48	-		
1000	9.67	151	10.71	1.16	6.84	1.01	1.5	-53	-		
1005	9.71	151	10.72	1.16	6.87	0.90	1.2	-58	-		
1010	9.87	151	11.37	1.16	6.81	0.84	1.2	-59	-		
1015	10.08	151	11.49	1.17	6.89	0.62	1.4	-69	-		
1020	10.20	151	11.50	1.18	6.89	0.57	2.0	-75	-		
1025	10.30	151	11.62	1.19	6.89	0.52	2.1	-81	-		
1030	10.36	151	11.68	1.20	6.90	0.50	1.4	-83	-		
1035	10.40	151	11.59	1.20	6.90	0.48	1.5	-88	-		

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

TEMP: nearest degree (ex. 10.1 = 10) COND: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	11.63	1.197	6.90	0.50	1.7	-84
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**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-5 20201216

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO    NUMBER OF GALLONS GENERATED   3.926  
 NO-PURGE METHOD UTILIZED   YES    NO    If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Sampler Signature: \_\_\_\_\_   Print Name Tracy Garland, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_   Date: \_\_\_\_\_

**SKETCH/NOTES**

PURGED 0900-1040 (1 HR 40 MIN) - DELAYED DUE TO FREEZING LINES  
 WELL LOOKS GOOD  
 CLEAR COLOR  
 NO ODOR  
 NO FREE PRODUCT



# LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-7_20201216	<b>SAMPLE TIME</b> 1225

<b>LOCATION ID</b> MW-7	<b>DATE</b> 12/16/2020
<b>START TIME</b> 1140	<b>END TIME</b> 1225
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 10.41 FT	<b>FINAL DTW (BMP)</b> 10.40 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 19.27 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 8.86 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.45 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 1.248 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1140	<b>BEGIN PURGING</b>									
1145	11.10	120	10.69	1.03	6.71	4.55	7.8	99	-	
1150	11.58	120	10.72	1.03	6.96	4.04	13.4	86	-	
1155	12.00	120	10.63	1.03	7.08	3.64	15.9	86	-	
1200	12.31	120	10.50	1.03	7.07	3.43	22.4	89	-	
1205	12.57	120	10.52	1.03	7.06	3.40	23.6	91	-	
1210	12.86	120	10.69	1.03	7.05	3.40	20.6	92	-	
1215	13.22	120	10.68	1.03	7.05	3.23	16.5	94	-	
1220	13.42	120	10.76	1.03	7.04	3.07	15.1	95	-	
1225	13.71	120	10.78	1.03	7.04	3.14	16.0	96	-	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>								TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)			
NM: Not measured			<b>10.74</b>	<b>1.030</b>	<b>7.04</b>	<b>3.15</b>	<b>15.9</b>	<b>95</b>			

EQUIPMENT DOCUMENTATION			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-7_20201216

<b>PURGE OBSERVATIONS</b> PURGE WATER CONTAINERIZED   YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NO-PURGE METHOD UTILIZED   YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER OF GALLONS GENERATED   1.248 If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.	<b>SKETCH/NOTES</b> WELL LOOKS GOOD CLEAR COLOR NO ODOR NO FREE PRODUCT NO SHEEN
Sampler Signature: _____ Checked By: _____	Print Name Tracy Garland, Gunther Schnorr, D&B Date: _____

# LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-9_20201215	<b>SAMPLE TIME</b> 1505

<b>LOCATION ID</b> MW-9	<b>DATE</b> 12/15/2020
<b>START TIME</b> 1430	<b>END TIME</b> 1505
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 10.10 FT	<b>FINAL DTW (BMP)</b> 14.82 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 21.74 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 11.64 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.91 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 0.4914 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1430	<b>BEGIN PURGING</b>									
1435	10.23	63	12.49	1.77	6.63	2.22	39.9	-278	-	
1440	10.20	63	13.23	1.53	6.68	3.76	15.5	-302	-	
1445	10.20	63	13.41	1.33	6.72	1.32	111.2	-306	-	
1450	12.80	63	13.36	1.03	6.76	4.85	12.7	-302	-	
1455	13.49	63	13.33	0.940	6.78	4.74	11.5	-298	-	
1500	14.19	63	13.01	0.944	6.79	4.73	10.5	-300	-	
1505	14.82	63	13.08	0.965	6.78	4.65	10.1	-303	-	

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

NM: Not measured 13.14      0.950      6.78      4.71      10.7      -300	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-9_20201215

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.4914  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 WELL LOOKS GOOD  
 CLEAR COLOR  
 NO ODOR  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_      Print Name Tracy Garland, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-10_20201215	<b>SAMPLE TIME</b> 1330

<b>LOCATION ID</b> MW-10	<b>DATE</b> 12/15/2020
<b>START TIME</b> 1225	<b>END TIME</b> 1330
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 10.67 FT	<b>FINAL DTW (BMP)</b> 14.82 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 19.53 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 8.86 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.45 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 2.4804 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1225	<b>BEGIN PURGING</b>									
1230	1230-1245 - PARAMETERS NOT RECORDED									
1250	11.10	159	14.36	1.59	6.64	1.39	9.5	36	-	
1255	11.08	159	14.10	1.36	6.84	2.35	2.6	65	-	
1300	11.09	159	13.76	1.33	6.98	2.51	1.3	80	-	
1305	11.09	159	13.56	1.340	7.05	2.48	1.3	98	-	
1310	11.09	159	13.61	1.36	7.07	2.41	0.8	107	-	
1315	11.10	159	13.30	1.39	7.08	2.34	0.7	115	-	
1320	11.10	159	13.54	1.41	7.09	2.33	0.7	120	-	
1325	11.10	159	13.61	1.44	7.09	2.31	0.4	126	-	
1330	11.10	159	13.60	1.45	7.09	2.31	0.6	131	-	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>								TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)		
NM: Not measured		<b>13.58</b>	<b>1.433</b>	<b>7.09</b>	<b>2.32</b>	<b>0.6</b>	<b>126</b>			

EQUIPMENT DOCUMENTATION			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER NA	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	YES	MW-10_20201215

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   2.4804  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Sampler Signature: \_\_\_\_\_   Print Name Tracy Garland, Gunther Schnorr, D&B  
 Checked By: \_\_\_\_\_   Date: \_\_\_\_\_

**SKETCH/NOTES**  
 VOC DUP COLLECTED (DUP-1\_20201215)  
 WELL LOOKS GOOD  
 CLEAR COLOR  
 NO ODOR  
 NO FREE PRODUCT

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-2_20211214	<b>SAMPLE TIME</b> 1250

<b>LOCATION ID</b> MW-2	<b>DATE</b> 12/14/2021
<b>START TIME</b> 1230	<b>END TIME</b> 1250
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	6.76 FT	<b>FINAL DTW (BMP)</b>	9.71 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	24.61 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	17.85 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	2.93 GAL	<b>TOTAL VOL. PURGED</b> (mL per minute X total minutes X 0.00026 gal/mL)	0.9828 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1230	<b>BEGIN PURGING</b>									
1235	8.40	189	14.13	1.55	6.88	1.94	0.0	-326	-	
1240	8.86	189	14.31	1.54	6.85	0.96	0.0	-332	-	
1245	9.33	189	14.50	1.54	6.83	0.74	0.0	-334	-	
1250	9.71	189	14.58	1.55	6.81	0.65	0.0	-335	-	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

NM: Not measured	<b>14.46</b>	<b>1.543</b>	<b>6.83</b>	<b>0.78</b>	<b>0.0</b>	<b>-334</b>	
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TEMP.: nearest degree (ex. 10.1 = 10)  
 COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)  
 pH: nearest tenth (ex. 5.53 = 5.5)  
 DO: nearest tenth (ex. 3.51 = 3.5)  
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)  
 ORP: 2 SF (44.1 = 44, 191 = 190)

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>	<b>DECON FLUIDS USED</b>	<b>TUBING/PUMP/BLADDER MATERIALS</b>	<b>EQUIPMENT USED</b>
<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	YES	MW-2_20211214
<input checked="" type="checkbox"/> 1,4-Dioxane	8270 SIM	No			###	YES	MW-2_20211214

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.9828  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

VOC DUP COLLECTED (DUP\_20211214)  
 MS/MSD COLLECTED (MW-2\_20211214)  
 COVER MISSING ONE BOLT  
 CLEAR COLOR  
 ROTTEN EGG ODOR

Sampler Signature: \_\_\_\_\_ Print Name Tracy Garland, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-3_20211214	<b>SAMPLE TIME</b> 1140

<b>LOCATION ID</b> MW-3	<b>DATE</b> 12/14/2021
<b>START TIME</b> 1115	<b>END TIME</b> 1140
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	11.19 FT	<b>FINAL DTW (BMP)</b>	13.88 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	17.37 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	6.18 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b> <small>(column X well diameter squared X 0.041)</small>	1.01 GAL	<b>TOTAL VOL. PURGED</b> <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	0.7345 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1115	<b>BEGIN PURGING - PARAMETERS 1115-1120 NOT RECORDED (PURGE RATE 113 mL/min)</b>									
1125	12.59	113	13.85	2.04	6.65	2.63	24.5	-170	-	
1130	13.05	113	13.93	2.03	6.60	1.44	24.0	-170	-	
1135	13.79	113	14.10	2.02	6.58	1.12	4.9	-170	-	
1140	13.88	113	14.16	2.02	6.57	1.01	0.6	-169	-	
<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>									TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
NM: Not measured			<b>14.06</b>	<b>2.023</b>	<b>6.58</b>	<b>1.19</b>	<b>9.8</b>	<b>-170</b>		

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>	<b>DECON FLUIDS USED</b>	<b>TUBING/PUMP/BLADDER MATERIALS</b>	<b>EQUIPMENT USED</b>
<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-3_20211214

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.7345  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

COVER MISSING ALL BOLTS  
CLEAR COLOR  
NO ODOR  
NO FREE PRODUCT  
NO SHEEN

Sampler Signature: \_\_\_\_\_ Print Name Tracy Garland, D&B

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-4_20211213	<b>SAMPLE TIME</b> 1430

<b>LOCATION ID</b> MW-4	<b>DATE</b> 12/13/2021
<b>START TIME</b> 1405	<b>END TIME</b> 1430
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="11.50"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="14.79"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="16.76"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="10.0"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="5.26"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b>	<input type="text" value="0.86"/> GAL	<b>TOTAL VOL. PURGED</b>	<input type="text" value="0.9815"/> GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

(final DTW - initial DTW X well diam. squared X 0.041)  
 (column X well diameter squared X 0.041)      (mL per minute X total minutes X 0.00026 gal/mL)

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1405	<b>BEGIN PURGING</b>									
1410	12.42	151	14.15	1.83	6.89	4.57	245.0	228	-	
1415	13.04	151	14.12	1.84	6.84	2.87	43.8	225	-	
1420	13.61	151	14.28	1.84	6.84	2.49	10.6	216	-	
1425	14.18	151	14.23	1.86	6.83	2.06	5.0	186	-	
1430	14.79	151	14.42	1.86	6.83	1.74	4.6	183	-	

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

NM: Not measured	<b>14.31</b>	<b>1.853</b>	<b>6.83</b>	<b>2.10</b>	<b>6.7</b>	<b>195</b>	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>DECON FLUIDS USED</b></p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-4_20211213

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.9815  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

CONCRETE CRACKED AROUND WELL -> OIL STAIN IN DRIVEWAY NEXT TO WELL. NO JPLUG. COVER DAMAGED  
 CLEAR COLOR  
 NO ODOR  
 NO FREE PRODUCT

Sampler Signature: \_\_\_\_\_

Print Name Tracy Garland, D&B

Checked By: \_\_\_\_\_

Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-5_20211213	<b>SAMPLE TIME</b> 1530

<b>LOCATION ID</b> MW-5	<b>DATE</b> 12/13/2021
<b>START TIME</b> 1510	<b>END TIME</b> 1530
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	7.46 FT	<b>FINAL DTW (BMP)</b>	8.11 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	16.03 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	8.57 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	1.41 GAL	<b>TOTAL VOL. PURGED</b> (mL per minute X total minutes X 0.00026 gal/mL)	0.9828 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1510	<b>BEGIN PURGING</b>									
1515	7.81	189	12.70	1.02	6.68	1.89	>800	151	-	
1520	7.95	189	12.72	1.02	6.65	1.35	>800	148	-	
1525	8.05	189	12.75	1.02	6.64	0.96	>800	145	-	
1530	8.11	189	12.77	1.04	6.63	0.87	0.0	142	-	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

NM: Not measured	<b>12.75</b>	<b>1.027</b>	<b>6.64</b>	<b>1.06</b>	<b>533.3</b>	<b>145</b>	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-5_20211213

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.9828  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 COVERED BY DEAD LEAVES  
 CLEAR WITH RED SOLIDS  
 NO ODOR  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_      Print Name Tracy Garland, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-7_20211213	<b>SAMPLE TIME</b> 1315

<b>LOCATION ID</b> MW-7	<b>DATE</b> 12/13/2021
<b>START TIME</b> 1255	<b>END TIME</b> 1315
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="11.50"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="14.79"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="16.76"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="10.0"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="5.26"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	<input type="text" value="0.86"/> GAL	<b>TOTAL VOL. PURGED</b> (final DTW - initial DTW X well diam. squared X 0.041)	<input type="text" value="0.7865"/> GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

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

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1255	<b>BEGIN PURGING</b>									
1300	9.91	121	12.68	1.11	6.39	5.08	1.5	263	-	
1305	10.31	121	12.67	1.12	6.61	4.43	1.1	246	-	
1310	10.86	121	12.77	1.93	6.70	4.06	1.6	236	-	
1315	11.13	121	12.72	1.14	6.74	3.85	2.0	231	-	
<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))</b>									TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
NM: Not measured			<b>12.72</b>	<b>1.397</b>	<b>6.68</b>	<b>4.11</b>	<b>1.6</b>	<b>238</b>		

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-7_20211213

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.7865  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 WELL GOOD CONDITION  
 CLEAR  
 NO ODOR  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_      Print Name Tracy Garland, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-9_20211214	<b>SAMPLE TIME</b> 1030

<b>LOCATION ID</b> MW-9	<b>DATE</b> 12/14/2021
<b>START TIME</b> 0940	<b>END TIME</b> 1030
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	9.85 FT	<b>FINAL DTW (BMP)</b>	16.18 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	21.93 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	12.08 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	1.98 GAL	<b>TOTAL VOL. PURGED</b> (mL per minute X total minutes X 0.00026 gal/mL)	2.002 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0940	<b>BEGIN PURGING</b>									
0945	11.45	154	11.80	2.17	6.53	2.18	0.0	-289	-	
0950	11.88	154	11.91	2.07	6.56	1.10	0.0	-304	-	
0955	12.49	154	12.24	2.03	6.59	0.79	0.0	-318	-	
1000	13.03	154	12.57	2.02	6.61	0.67	0.0	-327	-	
1005	13.95	154	12.98	1.90	6.58	0.61	1.4	-330	-	
1010	14.29	154	13.39	1.87	6.57	0.58	1.0	-333	-	
1015	14.82	154	13.73	1.85	6.58	0.54	0.8	-335	-	
1020	NM	154	NM	NM	NM	NM	NM	NM	-	
1025	NM	154	14.30	1.86	6.61	0.50	0.0	-337	-	
1030	16.18	154	14.35	1.86	6.61	0.48	0.0	-337	-	

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

NM: Not measured	<b>14.33</b>	<b>1.86</b>	<b>6.61</b>	<b>0.49</b>	<b>0.0</b>	<b>-337</b>	TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)
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**EQUIPMENT DOCUMENTATION**

<p><b>TYPE OF PUMP</b></p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>DECON FLUIDS USED</b></p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<p><b>TUBING/PUMP/BLADDER MATERIALS</b></p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p><b>EQUIPMENT USED</b></p> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER _____ <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-9_20211214

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   2.002  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

WELL GOOD CONDITION  
 CLEAR  
 STRONG SEWAGE ODOR  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_

Print Name Tracy Garland, D&B

Checked By: \_\_\_\_\_

Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-10_20211214	<b>SAMPLE TIME</b> 0900

<b>LOCATION ID</b> MW-10	<b>DATE</b> 12/14/2021
<b>START TIME</b> 0835	<b>END TIME</b> 0900
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 10.19 FT	<b>FINAL DTW (BMP)</b> 10.52 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 19.75 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 9.56 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.57 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 1.248 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0835	<b>BEGIN PURGING</b>									
0840	10.41	192	14.16	1.18	7.11	3.32	29.9	196	-	
0845	10.45	192	13.82	1.19	7.02	2.17	24.9	196	-	
0850	10.48	192	13.56	1.20	6.98	1.91	15.8	194	-	
0855	10.50	192	13.62	1.21	6.95	1.88	6.3	195	-	
0900	10.52	192	13.62	1.21	6.94	2.05	1.4	197	-	

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

TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	<b>13.60</b>	<b>1.21</b>	<b>6.96</b>	<b>1.95</b>	<b>7.8</b>	<b>195</b>
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<b>EQUIPMENT DOCUMENTATION</b>			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER _____ <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER SOLINST MODEL 101 <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER HORIBA U-52 <input type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP GEOPUMP PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	0900	NO	MW-10_20211214

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   1.248  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 WELL GOOD CONDITION  
 CLEAR  
 NO ODOR  
 NO FREE PRODUCT  
 NO SHEEN

Sampler Signature: \_\_\_\_\_      Print Name Tracy Garland, D&B  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_



# LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-2	<b>SAMPLE TIME</b> 1335

<b>LOCATION ID</b> MW-2	<b>DATE</b> 12/15/2022
<b>START TIME</b> 1300	<b>END TIME</b> 1335
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="7.29"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="7.70"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="24.57"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="10.0"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="17.28"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b> (column X well diameter squared X 0.041)	<input type="text" value="2.83"/> GAL	<b>TOTAL VOL. PURGED</b> (final DTW - initial DTW X well diam. squared X 0.041)	<input type="text" value="0.78"/> GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1300	<b>BEGIN PURGING - PARAMETERS NM BETWEEN 1035-1040</b>									
1305	0.40	100	12.9	1.88	6.79	2.17	3.75	-211.9	20.0	
1310	0.00	100	12.1	1.860	6.83	2.02	2.50	-220.9	20.0	
1315	0.00	100	12.4	1.845	6.85	2.01	2.98	-228.8	20.0	
1320	0.00	100	12.5	1.856	6.86	1.94	2.35	-235.1	20.0	
1325	0.00	100	12.4	1.891	6.88	1.87	2.39	-238.1	20.0	
1330	0.00	100	12.3	1.896	6.89	1.85	2.13	-234.5	20.0	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>									TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
NM: Not measured			<b>12.40</b>	<b>1.88</b>	<b>6.88</b>	<b>1.89</b>	<b>2.3</b>	<b>-236</b>		

EQUIPMENT DOCUMENTATION			
TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS	EQUIPMENT USED
<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-2
<input checked="" type="checkbox"/> 1,4-Dioxane	8270 SIM	No			###	YES	MW-2

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.78  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
 MS/MSD COLLECTED FOR 1,4-DIOXANE @ 1335 (SAMPLED IDS: MW-2-MS / MW-2-MSD)  
 EQUIPMENT BLANK AND FIELD BLANK COLLECTED  
 ROTTEN EGGS ODOR

Sampler Signature: \_\_\_\_\_      Print Name Matt Schappert, Liz Alvut, TRC  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-3	<b>SAMPLE TIME</b> 1250

<b>LOCATION ID</b> MW-3	<b>DATE</b> 12/15/2022
<b>START TIME</b> 1150	<b>END TIME</b> 1250
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 12.03 FT	<b>FINAL DTW (BMP)</b> 14.13 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 16.95 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 4.92 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 0.81 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 1.43 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<b>BEGIN PURGING - PARAMETERS NM BETWEEN 1150-1200</b>										
1150										
1205	1.40	100	13.3	1.37	6.98	2.81	55.21	-6.0	-	
1210	0.01	100	13.4	1.372	6.97	2.39	72.85	-19.4	-	
1215	1.75	100	13.3	1.362	6.98	2.14	45.08	-23.3	-	
1220	2.02	100	13.4	1.336	7.00	2.18	21.27	-35.0	-	
1225	2.17	100	13.5	1.340	7.02	1.57	15.52	-48.7	-	
1230	2.27	100	13.6	1.317	7.04	1.21	9.69	-59.0	-	
1235	2.44	100	13.7	1.289	7.06	0.88	5.10	-76.7	-	
1240	2.47	100	13.4	1.283	7.06	0.85	5.55	-80.7	-	
1245	2.47	100	13.2	1.277	7.07	0.81	4.21	-85.9	-	

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

NM: Not measured	<b>13.43</b>	<b>1.28</b>	<b>7.06</b>	<b>0.85</b>	<b>5.0</b>	<b>-81</b>
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TEMP.: nearest degree (ex. 10.1 = 10)  
 COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)  
 pH: nearest tenth (ex. 5.53 = 5.5)  
 DO: nearest tenth (ex. 3.51 = 3.5)  
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)  
 ORP: 2 SF (44.1 = 44, 191 = 190)

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>	<b>DECON FLUIDS USED</b>	<b>TUBING/PUMP/BLADDER MATERIALS</b>	<b>EQUIPMENT USED</b>
<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-3

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   1.43  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

Sampler Signature: \_\_\_\_\_   Print Name Matt Schappert, Liz Alvut, TRC  
 Checked By: \_\_\_\_\_   Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-4	<b>SAMPLE TIME</b> 1150

<b>LOCATION ID</b> MW-4	<b>DATE</b> 12/15/2022
<b>START TIME</b> 1120	<b>END TIME</b> 1150
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	<input type="text" value="11.11"/> FT	<b>FINAL DTW (BMP)</b>	<input type="text" value="11.11"/> FT	<b>PROT. CASING STICKUP (AGS)</b>	<input type="text" value="0"/> FT	<b>TOC/TOR DIFFERENCE</b>	<input type="text" value="-"/> FT
<b>WELL DEPTH (BMP)</b>	<input type="text" value="16.76"/> FT	<b>SCREEN LENGTH</b>	<input type="text" value="10.0"/> FT	<b>PID AMBIENT AIR</b>	<input type="text" value="NA"/> PPM	<b>REFILL TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>WATER COLUMN</b>	<input type="text" value="5.65"/> FT	<b>DRAWDOWN VOLUME</b>	<input type="text" value="NA"/> GAL	<b>PID WELL MOUTH</b>	<input type="text" value="NA"/> PPM	<b>DISCHARGE TIMER SETTING</b>	<input type="text" value="-"/> SEC
<b>CALCULATED GAL/VOL</b>	<input type="text" value="0.93"/> GAL	<b>TOTAL VOL. PURGED</b>	<input type="text" value="0.65"/> GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	<input type="text" value="NA"/>	<b>PRESSURE TO PUMP</b>	<input type="text" value="-"/> PSI

(final DTW - initial DTW X well diam. squared X 0.041)      (column X well diameter squared X 0.041)      (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O <sub>2</sub> (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft Drawdown	(mL/min)	(+/- 3 degrees)	(mS/cm) (+/- 3%)	(+/- 0.1 units)	(+/- 10%)	(+/- 10% <10 ntu)	(+/- 10 mv)		
1120	<b>BEGIN PURGING - PARAMETERS NM BETWEEN 1035-1040</b>									
1125	0.00	100	13.3	2.11	7.09	6.73	11.61	87.0	14.0	
1130	0.00	100	12.3	2.235	7.09	6.52	9.40	52.7	14.0	
1135	0.00	100	12.3	2.236	7.10	6.29	6.51	45.2	14.0	
1140	0.00	100	12.6	2.242	7.11	6.23	5.67	40.5	14.0	
1145	0.00	100	12.4	2.248	7.11	6.12	4.77	39.7	14.0	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>									TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
NM: Not measured	<b>12.43</b>	<b>2.24</b>	<b>7.11</b>	<b>6.21</b>	<b>5.7</b>	<b>42</b>				

EQUIPMENT DOCUMENTATION			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-4

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.65  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
  
 Sampler Signature: \_\_\_\_\_      Print Name Matt Schappert, Liz Alvut, TRC  
 Checked By: \_\_\_\_\_      Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-5	<b>SAMPLE TIME</b> 1120

<b>LOCATION ID</b> MW-5	<b>DATE</b> 12/15/2022
<b>START TIME</b> 1035	<b>END TIME</b> 1120
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b>	8.33 FT	<b>FINAL DTW (BMP)</b>	9.15 FT	<b>PROT. CASING STICKUP (AGS)</b>	0 FT	<b>TOC/TOR DIFFERENCE</b>	- FT
<b>WELL DEPTH (BMP)</b>	15.85 FT	<b>SCREEN LENGTH</b>	10.0 FT	<b>PID AMBIENT AIR</b>	NA PPM	<b>REFILL TIMER SETTING</b>	- SEC
<b>WATER COLUMN</b>	7.52 FT	<b>DRAWDOWN VOLUME</b>	NA GAL	<b>PID WELL MOUTH</b>	NA PPM	<b>DISCHARGE TIMER SETTING</b>	- SEC
<b>CALCULATED GAL/VOL</b> <small>(column X well diameter squared X 0.041)</small>	1.23 GAL	<b>TOTAL VOL. PURGED</b> <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	1.04 GAL	<b>DRAWDOWN/ TOTAL PURGED</b>	NA	<b>PRESSURE TO PUMP</b>	- PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1035	<b>BEGIN PURGING - PARAMETERS NM BETWEEN 1035-1040</b>									
1045	1.00	100	12.3	0.91	6.99	1.80	17.96	-2.7	-	
1050	1.00	100	12.6	0.951	7.00	0.99	12.00	-29.5	-	
1055	1.02	100	12.8	0.954	7.02	0.85	10.52	-38.0	-	
1100	0.87	100	12.1	0.968	7.04	0.69	6.95	-49.3	-	
1105	0.84	100	12.2	0.966	7.04	0.67	6.17	-49.5	-	
1110	0.81	100	12.0	0.976	7.05	0.62	5.07	-52.7	-	
1115	0.81	100	12.1	0.972	7.05	0.60	4.39	-53.4	-	

**FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))**

NM: Not measured

**12.10**

**0.97**

**7.05**

**0.63**

**5.2**

**-52**

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

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b>	<b>DECON FLUIDS USED</b>	<b>TUBING/PUMP/BLADDER MATERIALS</b>	<b>EQUIPMENT USED</b>
<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER  <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X TCL VOCs	8620C	No	HCl	120 mL	###	YES	MW-5

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED   YES      NO     
 NO-PURGE METHOD UTILIZED   YES      NO     
 NUMBER OF GALLONS GENERATED   1.04  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

MS/MSD COLLECTED @ 1120 (SAMPLED IDS: MW-5-MS / MW-5-MSD)

Sampler Signature: \_\_\_\_\_ Print Name Matt Schappert, Liz Alvut, TRC

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_





## LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Preferred Electric Motors, Inc.	
PROJECT NUMBER NYSDEC Site No. 828106	
SAMPLE ID MW-9	SAMPLE TIME 1425

LOCATION ID MW-10	DATE 11/15/2022
START TIME 1320	END TIME 1425
SITE NAME/NUMBER Preferred Electric Motors, Inc.	PAGE 1 OF 1

**WELL DIAMETER (INCHES)**  1  2  4  6  8  OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**  1/8  1/4  3/8  1/2  5/8  OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**  TOP OF RISER (TOR)  TOP OF CASING (TOC)  OTHER \_\_\_\_\_

**WELL INTEGRITY**

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 9.80 FT	FINAL DTW (BMP) 14.50 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE - FT
WELL DEPTH (BMP) 21.80 FT	SCREEN LENGTH 10.0 FT	PID AMBIENT AIR NA PPM	REFILL TIMER SETTING - SEC
WATER COLUMN 12.00 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041) NA GAL	PID WELL MOUTH NA PPM	DISCHARGE TIMER SETTING - SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.97 GAL	TOTAL VOL. PURGED 1.56 GAL (mL per minute X total minutes X 0.00026 gal/mL)	DRAWDOWN/TOTAL PURGED NA	PRESSURE TO PUMP - PSI

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

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1320	<b>BEGIN PURGING</b>									
1335	NM	100	NM	NM	NM	NM	NM	NM	18.0	
1330	1.46	100	14.9	1.032	7.04	0.65	9.30	21.6	18.0	
1335	1.87	100	14.9	1.033	7.04	0.52	9.44	25.4	18.0	
1340	2.27	100	14.9	1.030	7.03	0.51	17.44	30.2	18.0	
1345	2.27	100	14.7	1.027	7.03	0.55	34.17	29.5	18.0	
1350	3.00	100	15.0	1.025	7.00	0.61	30.28	16.3	18.0	
1355	3.58	100	15.2	1.027	7.01	0.63	29.71	7.8	18.0	
1400	4.11	100	15.4	1.032	7.01	0.61	25.10	-7.9	18.0	
1405	4.39	100	15.1	1.033	7.02	0.57	20.19	-9.7	18.0	
1410	4.58	100	14.9	1.037	7.02	0.56	15.60	-25.6	18.0	
1415	4.70	100	14.7	1.036	7.02	0.57	15.04	-39.6	18.0	
1420	4.70	100	13.5	1.040	7.03	0.57	15.31	-44.2	18.0	

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

NM: Not measured

**14.37      1.04      7.02      0.57      15.3      -36**

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

**EQUIPMENT DOCUMENTATION**

<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID _____ <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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**ANALYTICAL PARAMETERS**

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-9

**PURGE OBSERVATIONS**

PURGE WATER CONTAINERIZED YES  NO   
 NO-PURGE METHOD UTILIZED YES  NO   
 NUMBER OF GALLONS GENERATED 1.56  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**

Sampler Signature: \_\_\_\_\_ Print Name Matt Schappert, Liz Alvut, TRC

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



## LOW FLOW GROUNDWATER SAMPLING RECORD

<b>PROJECT NAME</b> Preferred Electric Motors, Inc.	
<b>PROJECT NUMBER</b> NYSDEC Site No. 828106	
<b>SAMPLE ID</b> MW-10	<b>SAMPLE TIME</b> 1240

<b>LOCATION ID</b> MW-10	<b>DATE</b> 12/15/2022
<b>START TIME</b> 1210	<b>END TIME</b> 1240
<b>SITE NAME/NUMBER</b> Preferred Electric Motors, Inc.	<b>PAGE</b> 1 OF 1

**WELL DIAMETER (INCHES)**    1    2    4    6    8    OTHER \_\_\_\_\_  
**TUBING ID (INCHES)**    1/8    1/4    3/8    1/2    5/8    OTHER \_\_\_\_\_ NA  
**MEASUREMENT POINT (MP)**    TOP OF RISER (TOR)    TOP OF CASING (TOC)    OTHER \_\_\_\_\_

**WELL INTEGRITY**  
 YES   NO   N/A  
 CAP      \_\_\_\_\_   \_\_\_\_\_  
 CASING      \_\_\_\_\_   \_\_\_\_\_  
 LOCKED   \_\_\_\_\_      \_\_\_\_\_  
 COLLAR      \_\_\_\_\_   \_\_\_\_\_

<b>INITIAL DTW (BMP)</b> 10.48 FT	<b>FINAL DTW (BMP)</b> 10.48 FT	<b>PROT. CASING STICKUP (AGS)</b> 0 FT	<b>TOC/TOR DIFFERENCE</b> - FT
<b>WELL DEPTH (BMP)</b> 19.68 FT	<b>SCREEN LENGTH</b> 10.0 FT	<b>PID AMBIENT AIR</b> NA PPM	<b>REFILL TIMER SETTING</b> - SEC
<b>WATER COLUMN</b> 9.20 FT	<b>DRAWDOWN VOLUME</b> NA GAL <small>(final DTW - initial DTW X well diam. squared X 0.041)</small>	<b>PID WELL MOUTH</b> NA PPM	<b>DISCHARGE TIMER SETTING</b> - SEC
<b>CALCULATED GAL/VOL</b> 1.51 GAL <small>(column X well diameter squared X 0.041)</small>	<b>TOTAL VOL. PURGED</b> 0.65 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	<b>DRAWDOWN/ TOTAL PURGED</b> NA	<b>PRESSURE TO PUMP</b> - PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O <sub>2</sub> (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1210	<b>BEGIN PURGING - PARAMETERS NM BETWEEN 1035-1040</b>									
1215	0.00	100	13.2	2.24	7.11	3.72	5.45	69.0	15.0	
1220	0.00	100	13.8	2.546	7.21	4.10	5.15	34.5	15.0	
1225	0.00	100	13.9	2.574	7.29	4.85	3.88	24.2	15.0	
1230	0.00	100	14.2	2.581	7.31	4.76	3.49	20.5	15.0	
1235	0.00	100	14.2	2.575	7.34	4.79	3.44	19.1	15.0	

<b>FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])</b>									TEMP.: nearest degree (ex. 10.1 = 10) COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696) pH: nearest tenth (ex. 5.53 = 5.5) DO: nearest tenth (ex. 3.51 = 3.5) TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101) ORP: 2 SF (44.1 = 44, 191 = 190)	
NM: Not measured			<b>14.10</b>	<b>2.58</b>	<b>7.31</b>	<b>4.80</b>	<b>3.6</b>	<b>21</b>		

EQUIPMENT DOCUMENTATION			
<b>TYPE OF PUMP</b> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATTERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>DECON FLUIDS USED</b> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input checked="" type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input checked="" type="checkbox"/> OTHER ALCONOX	<b>TUBING/PUMP/BLADDER MATERIALS</b> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<b>EQUIPMENT USED</b> <input checked="" type="checkbox"/> WL METER HERON <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER YSI PRO DSS <input checked="" type="checkbox"/> TURB. METER YSI PRO DSS <input checked="" type="checkbox"/> PUMP PINE PERISTALTIC PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS							
PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCL VOCs	8620C	No	HCl	120 mL	###	NO	MW-10

**PURGE OBSERVATIONS**  
 PURGE WATER CONTAINERIZED   YES    NO   
 NO-PURGE METHOD UTILIZED   YES    NO   
 NUMBER OF GALLONS GENERATED   0.65  
 If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**SKETCH/NOTES**  
  
 Sampler Signature: \_\_\_\_\_      Print Name Matt Schappert, Liz Alvut, TRC  
 Checked By: \_\_\_\_\_                      Date: \_\_\_\_\_





**APPENDIX F**

## Data Usability Summary Report

A total of 7 groundwater samples, 1 field duplicate, a field blank and a trip blank were collected for analysis as part of the remedial investigation completed at the Preferred Electric Motors, New York Site on November 19 and 20, 2019. The samples were submitted to Eurofins TestAmerica Laboratories, Inc. located in Buffalo, NY, for analysis of VOCs by USEPA method SW846 8620C; and selected samples were also analyzed for 1,4-Dioxane by USEPA method SW846 8270D SIM. In addition, the selected samples were submitted to Eurofins TestAmerica Laboratories, Inc. located in Burlington, V.T. for analysis of Fluorinated Alkyl Substances (PFCs) by USEPA method 537 (modified).

Eurofins TestAmerica Laboratories, Inc. provided a NYSDEC Analytical Services Protocol (ASP) Category B Sample Deliverable Group (SDG) laboratory package (460-163054) for review. This data package was reviewed by Ms. Donna Brown, D&B's Quality Assurance/Quality Control (QA/QC) Officer. Ms. Brown meets the New York State Department of Environmental Conservation (NYSDEC) requirements of a data validator as listed in the DER-10 Technical Guidance for Site Investigation and Remediation, dated June 2010. The review of the data was conducted in accordance with NYSDEC 7/05 ASP QA/QC requirements, as well as DER-10.

All samples were analyzed using the proper methods and within the method-specified holding times, in accordance with the 2005 NYSDEC ASP. The internal standard area counts and spike recoveries were within QC limits except where noted below. Initial and continuing calibrations were analyzed at the method specified frequency and were within QC limits. Raw data confirmed the reported sample results. The following sample results were qualified based on validation of the data:

- The VOC matrix spike (MS) and/or MS duplicate percent recoveries (%Rs) were above the QC limits for 1,1-dichloroethane, methylene chloride and benzene. The following compounds were qualified as estimated (J): 1,1-dichloroethane in samples MW-1, MW-2 and DUP; benzene in samples MW-2 and MW-9; and methylene chloride in sample DUP.
- The VOC laboratory control sample %R was below the QC limit in chloroethane associated with samples MW-9 and MW-4 and were qualified as an estimated detection limit (UJ).

- An E qualifier was placed on sample MW-2 1,4-dioxane result, the actual amounts are within the calibration range; however, the E flag was generated based upon the bias corrected concentration from the recovery of the 1,4-dioxane-d8 isotope. 1,4-Dioxane-d8 isotope recoveries were all within QC limits therefore, the E qualifier was removed and 1,4-dioxane result in sample MW-2 was qualified as estimated (J).

Based on the findings of the data validation process, the results have been deemed valid and usable for environmental assessment purposes as qualified above.

## DATA VALIDATION CHECKLIST

Project Name:	NYSDEC -Preferred Electric Motors		
Project Number:	3150-45AA		
Sample Date(s):	November 19 & 20, 2019		
Sample Team:	GS		
Matrix/Number of Samples:	<u>Water/ 7</u> <u>Field Duplicate/ 1</u> <u>Trip Blank/ 1</u> <u>Field Blank/ 1</u>		
Analyzing Laboratory:	Eurofins TestAmerica Laboratories, Buffalo, NY or Burlington, VT		
Analyses:	<u>Volatile Organic Compounds (VOCs): USEPA SW-846 Method 8260C in NY</u> <u>1,4-Dioxane: USEPA SW-846 Method 8270D SIM in NY</u> <u>Per-and Polyfluoroalkyl Substances (PFAS): by EPA 537 (modified) in VT</u>		
Laboratory Report No:	460-163054	Date:	12/27/19

## ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

### Comments:

The data packages have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, January 2017, method performance criteria and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

**Custody Numbers:480-163054  
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis			
				VOC	1,4-Dioxane	PFAS	MISC
MW-1	480-163054-1	11/19/2019			X	X	
MW-2	480-163054-2	11/19/2019			X	X	
MW-5	480-163054-3	11/20/2019			X	X	
DUP	480-163054-4	11/19/2019	MW-1		X	X	
FIELD BLANK	480-163054-5	11/20/2019			X	X	
MW-1	480-163123-1	11/19/2019		X			
MW-2	480-163123-2	11/19/2019		X			
MW-10	480-163123-3	11/19/2019		X			
DUP	480-163123-4	11/19/2019	MW-1	X			
MW-5	480-163123-5	11/20/2019		X			
MW-9	480-163123-6	11/20/2019		X			
MW-4	480-163123-7	11/20/2019		X			
MW-7	480-163123-8	11/20/2019		X			
TRIP BLANK	480-163123-9	11/19/2019		X			

**ORGANIC ANALYSES  
VOCS, PFA & 1,4-Dioxane**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks		X		X	
C. Field blanks		X	X		
3. Matrix spike (MS) %R		X	X		
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X		X	
6. Laboratory control sample (LCS)		X	X		
7. Surrogate spike recoveries		X	X		
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD					X

VOCs - volatile organic compounds

%D - percent difference

RRF - relative response factor

%R - percent recovery

%RSD - percent relative standard deviation

RPD - relative percent difference

**Comments:**

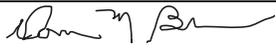
Performance was acceptable, with the following exception:

- 2C. Perfluoropentanoic acid (PFPeA) was detected in the FIELD BLANK. Based on the sample's concentration no qualification of the data was necessary.
- 3&4. The VOC MS and/or MSD %Rs were above the QC limits for 1,1-dichloroethane, methylene chloride and benzene. The following compounds were qualified as estimated (J): 1,1-dichloroethane in samples MW-1, MW-2 and DUP; benzene in samples MW-2 and MW-9; and methylene chloride in sample DUP.
6. The VOC LCS %R was below the QC limit in chloroethane associated with samples MW-9 and MW-4 and were qualified as an estimated detection limit (UJ).
7. The PFA surrogates %Rs for M2-6:2 FTS and M2-8:2 FTS were above the QC limit for samples MW-1 and DUP. No associated results were detected in the samples.
12. The 1,4-dioxane result in sample MW-2 was laboratory qualified as "E" due to bias corrected concentration in the recovery of the 1,4-dioxane-d8 isotope. Therefore, 1,4-dioxane result in sample MW-2 was qualified as estimated (J).

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**

**Laboratory Numbers: 460-163054**

Sample ID	Analyte(s)	Qualifier	Reason(s)
<b><u>VOCs</u></b>			
MW-1, MW-2 and DUP	1,1-Dichloroethane	J	MS and/or MSD %Rs were above the QC limits
MW-2 and MW-9	Benzene		
DUP	Methylene chloride		
MW-9 and MW-4	Chloroethane	UJ	LCS %R was below the QC limit
<b><u>PFAs</u></b>			
No qualification of the data was necessary.			
<b><u>1,4-Dioxone</u></b>			
MW-2	1,4-Dioxane	J	Bias corrected concentration based on the recovery of the 1,4-Dioxane-d8 isotope

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 4/16/2020
VALIDATION PERFORMED BY SIGNATURE:	

## **Data Usability Summary Report**

A total of 7 groundwater samples and 1 field duplicate were collected for analysis as part of the remedial investigation completed at the Preferred Electric Motors, New York Site on December 15 & 16, 2020. The samples were submitted to Eurofins TestAmerica Laboratories, Inc. located in Buffalo, NY, for analysis of VOCs by USEPA method SW846 8620C.

Eurofins TestAmerica Laboratories, Inc. provided a NYSDEC Analytical Services Protocol (ASP) Category B Sample Deliverable Group (SDG) laboratory package (480-179481) for review. This data package was reviewed by Ms. Donna Brown, D&B's Quality Assurance/Quality Control (QA/QC) Officer. Ms. Brown meets the New York State Department of Environmental Conservation (NYSDEC) requirements of a data validator as listed in the DER-10 Technical Guidance for Site Investigation and Remediation, dated June 2010. The review of the data was conducted in accordance with NYSDEC 7/05 ASP QA/QC requirements, as well as DER-10.

All samples were analyzed using the proper methods and within the method-specified holding times, in accordance with the 2005 NYSDEC ASP. The internal standard area counts and spike recoveries were within QC limits except where noted below. Initial and continuing calibrations were analyzed at the method specified frequency and were within QC limits. Raw data confirmed the reported sample results. No qualification of the data was necessary. Based on the findings of the data validation process, the results have been deemed valid and usable for environmental assessment purposes as qualified above.

## DATA VALIDATION CHECKLIST

Project Name:	NYSDEC -Preferred Electric Motors	
Project Number:	3150-45AA	
Sample Date(s):	December 15 & 16, 2020	
Sample Team:	GS & TG	
Matrix/Number of Samples:	<u>Water/ 7</u> <u>Field Duplicate/ 1</u> <u>Trip Blank/ 0</u> <u>Field Blank/ 0</u>	
Analyzing Laboratory:	Eurofins TestAmerica Laboratories, Buffalo, NY	
Analyses:	<u>Volatile Organic Compounds (VOCs): USEPA SW-846 Method 8260C</u>	
Laboratory Report No:	480-179481	Date: 12/28/2020

## ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

### Comments:

The data packages have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, January 2017, method performance criteria and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

**Custody Numbers:480-179481  
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis			
				VOC	1,4-Dioxane	PFAS	MISC
MW-2	480-179481-1	12/15/2020		X			
MW-9	480-179481-2	12/15/2020		X			
MW-10	480-179481-3	12/15/2020		X			
DUP-1	480-179481-4	12/15/2020	MW-10	X			
MW-3	480-179481-5	12/16/2020		X			
MW-4	480-179481-6	12/16/2020		X			
MW-5	480-179481-7	12/16/2020		X			
MW-7	480-179481-8	12/16/2020		X			

**ORGANIC ANALYSES**  
**VOCS**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Matrix spike (MS) %R		X	X		
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X		X	
6. Laboratory control sample (LCS)		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	

VOCs - volatile organic compounds

%D - percent difference

RRF - relative response factor

%R - percent recovery

%RSD - percent relative standard deviation

RPD - relative percent difference

**Comments:**

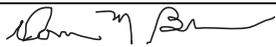
Performance was acceptable, with the following exception:

- 3&4. The MS and/or MSD %Rs were above the QC limits for 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, dibromochloromethane, bromodichloromethane, and bromoform. They were not detected in the samples therefore qualification of the data was not necessary.
- 6. The LCS %R was above the QC limit in bromoform and dibromochloromethane associated with samples MW-3 and DUP-1. They were not detected in the samples therefore qualification of the data was not necessary.

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**

**Laboratory Numbers: 460-179481**

Sample ID	Analyte(s)	Qualifier	Reason(s)
<b>VOCs</b>			
No qualification of the data was necessary.			

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 1/26/2021
VALIDATION PERFORMED BY SIGNATURE:	

## Data Usability Summary Report

A total of 7 groundwater samples and 1 field duplicate were collected for analysis as part of the remedial investigation completed at the Preferred Electric Motors, New York Site on December 13 & 14, 2021. The samples were submitted to Eurofins TestAmerica Laboratories, Inc. located in Buffalo, NY, for analysis of volatile organic compounds (VOCs) by USEPA method SW846 8620C and sample MW-2 was also analyzed for 1,4-dioxane by USEPA method 8270D SIM-ID.

Eurofins TestAmerica Laboratories, Inc. provided a NYSDEC Analytical Services Protocol (ASP) Category B Sample Deliverable Group (SDG) laboratory package (480-193461) for review. This data package was reviewed by Ms. Donna Brown, D&B's Quality Assurance/Quality Control (QA/QC) Officer. Ms. Brown meets the New York State Department of Environmental Conservation (NYSDEC) requirements of a data validator as listed in the DER-10 Technical Guidance for Site Investigation and Remediation, dated June 2010. The review of the data was conducted in accordance with NYSDEC 7/05 ASP QA/QC requirements, as well as DER-10.

All samples were analyzed using the proper methods and within the method-specified holding times, in accordance with the 2005 NYSDEC ASP. The internal standard area counts and spike recoveries were within QC limits except where noted below. Initial and continuing calibrations were analyzed at the method specified frequency and were within QC limits. Raw data confirmed the reported sample results. The following qualification of the data was necessary:

- The MS and/or MSD %Rs were above the QC limits for 1,1,1-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloropropane, 2-hexanone, benzene, bromodichloromethane, carbon disulfide, carbon tetrachloride, chlorobenzene, chloromethane, cis-1,2-dichloroethene, dibromochloromethane, dichlorodifluoromethane, ethylbenzene, methylene chloride, styrene, tetrachloroethene, trans-1,2-dichloroethene, and trichloroethene. The following compounds were qualified as estimated (J): 1,1-dichloroethane in samples MW-2 and DUP and cis-1,2-dichloroethene and trichloroethene in sample MW-5.

Based on the findings of the data validation process, the results have been deemed valid and usable for environmental assessment purposes as qualified above.

## DATA VALIDATION CHECKLIST

Project Name:	NYSDEC -Preferred Electric Motors	
Project Number:	3150-45AA	
Sample Date(s):	December 13 & 14, 2021	
Sample Team:	GS & TG	
Matrix/Number of Samples:	<u>Water/ 7</u> <u>Field Duplicate/ 1</u> <u>Trip Blank/ 0</u> <u>Field Blank/ 0</u>	
Analyzing Laboratory:	Eurofins TestAmerica Laboratories, Buffalo, NY	
Analyses:	<u>Volatile Organic Compounds (VOCs): USEPA SW-846 Method 8260C</u> <u>1,4-Dioxane: USEPA SW Method 8270D SIM-ID</u>	
Laboratory Report No:	480-193461	Date: 12/22/2021

## ANALYTICAL DATA PACKAGE DOCUMENTATION GENERAL INFORMATION

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Method of analysis		X		X	
4. Sample collection date		X		X	
5. Laboratory sample received date		X		X	
6. Sample analysis date		X		X	
7. Copy of chain-of-custody form signed by Lab sample custodian		X		X	
8. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

### Comments:

The data packages have been reviewed in accordance with the NYSDEC 6/05 ASP Quality Assurance/Quality Control (QA/QC) requirements. A validation was conducted on the data package and any applicable qualification of the data was determined using the USEPA National Functional Guidelines of Organic Data Review, November 2020, method performance criteria and D&B Engineers and Architects, P.C. professional judgment. The qualification of data discussed within this data validation checklist did not impact the usability of the sample results.

**Custody Numbers:480-193461  
SAMPLE AND ANALYSIS LIST**

Sample ID	Lab ID	Sample Collection Date	Parent Sample	Analysis			
				VOC	1,4-Dioxane	PFAS	MISC
MW-2	480-193461-1	12/14/2021		X	X		
MW-3	480-193461-2	12/14/2021		X			
MW-4	480-193461-3	12/13/2021		X			
MW-5	480-193461-4	12/13/2021		X			
MW-7	480-193461-5	12/13/2021		X			
MW-9	480-193461-6	12/14/2021		X			
MW-10	480-193461-7	12/14/2021		X			
DUP-1	480-193461-8	12/14/2021	MW-2	X			
TRIP BLANK	480-193461-9	12/14/2021		X			

**ORGANIC ANALYSES  
VOCS and 1,4 Dioxane**

	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Blanks					
A. Method blanks		X		X	
B. Trip blanks					X
C. Field blanks					X
3. Matrix spike (MS) %R		X	X		
4. Matrix spike duplicate (MSD) %R		X	X		
5. MS/MSD precision (RPD)		X	X		
6. Laboratory control sample (LCS)		X	X		
7. Surrogate spike recoveries		X		X	
8. Instrument performance check		X		X	
9. Internal standard retention times and areas		X		X	
10. Initial calibration RRF's and %RSD's		X		X	
11. Continuing calibration RRF's and %D's		X		X	
12. Transcriptions – quant report vs. Form I		X		X	
13. Field duplicates RPD		X		X	

VOCs - volatile organic compounds

%D - percent difference

RRF - relative response factor

%R - percent recovery

%RSD - percent relative standard deviation

RPD - relative percent difference

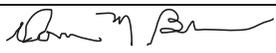
**Comments:**

Performance was acceptable, with the following exception:

- 3&4. The MS and/or MSD %Rs were above the QC limits for 1,1,1-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloropropane, 2-hexanone, benzene, bromodichloromethane, carbon disulfide, carbon tetrachloride, chlorobenzene, chloromethane, cis-1,2-dichloroethene, dibromochloromethane, dichlorodifluoromethane, ethylbenzene, methylene chloride, styrene, tetrachloroethene, trans-1,2-dichloroethene, and trichloroethene. The following compounds were qualified as estimated (J): 1,1-dichloroethane in samples MW-2 and DUP and cis-1,2-dichloroethene and trichloroethene in sample MW-5.
5. The RPD was above the QC limit in the MS/MSD associated with 1,1,2-trichloroethane, bromodichloromethane, cis-1,3-dichloropropene, and trans-1,3-dichloropropene. These compounds were not detected above the reporting limit and qualification of the data was not necessary.
6. The LCS %R was above the QC limit in carbon tetrachloride, dichlorodifluoromethane, and 1,1,1-trichloroethane. They were not detected in the samples therefore qualification of the data was not necessary.

**DATA VALIDATION AND  
QUALIFICATION SUMMARY**
**Laboratory Numbers: 460-193461**

Sample ID	Analyte(s)	Qualifier	Reason(s)
<b><u>VOCs</u></b>			
MW-2 and DUP	1,1-Dichloroethane	J	The MS and/or MSD %Rs were above the QC limits
MW-5	Cis-1,2-dichloroethene and trichloroethene		
<b><u>1,4-Dioxane</u></b>			
No qualification of the data was necessary.			

VALIDATION PERFORMED BY & DATE:	Donna M. Brown 1/17/2022
VALIDATION PERFORMED BY SIGNATURE:	

# Data Usability Summary Report

Vali-Data of WNY, LLC  
20 Hickory Grove Spur  
Fulton, NY 13069

Preferred Electric Motors  
Pace/Con-Test Analytical Laboratory SDG#22K2542  
March 19, 2024  
Sampling date: 11/15/2022

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
20 Hickory Grove Spur  
Fulton, NY 13069

Preferred Electric Motors  
SDG# 22K2542

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for TRC Engineers, Inc., project located at Preferred Electric Motors, SDG#22K2542 submitted to Vali-Data of WNY, LLC on December 26, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Semi-Volatile Organics (8270E).

<b>ID</b>	<b>Sample ID</b>	<b>Laboratory ID</b>
1	FD-01	22K2542-01
2	EB-01	22K2542-02
3	MW-2	22K2542-03

## **SEMIVOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use.

## **DATA COMPLETENESS**

All criteria were met.

**NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**SURROGATE SPIKE RECOVERIES**

All criteria were met.

**METHOD BLANK**

All the criteria were met.

**FIELD DUPLICATE SAMPLE PRECISION**

No field duplicate was acquired.

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD**

All criteria were met except the %Rec of 1,4-Dioxane was outside QC limits in the matrix spike duplicate but within limits in the matrix spike, so no further action is required.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

**CASE NARRATIVE SUMMARY**

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

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

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2542

Date Received: 11/17/2022

Field Sample #: FD-01

Sampled: 11/15/2022 14:30

Sample ID: 22K2542-01

Sample Matrix: Ground Water

**1,4-Dioxane by isotope dilution GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.11	0.20	0.032	µg/L	1	J	SW-846 8270E	11/20/22	11/30/22 11:05	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.4		15-110						11/30/22 11:05	

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Project Location: Rochester, NY

Sample Description:

Work Order: 22K2542

Date Received: 11/17/2022

Field Sample #: EB-01

Sampled: 11/15/2022 14:00

Sample ID: 22K2542-02

Sample Matrix: Ground Water

**1,4-Dioxane by isotope dilution GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.033	µg/L	1		SW-846 8270E	11/20/22	11/30/22 11:24	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.1		15-110				11/30/22 11:24			

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Project Location: Rochester, NY

Sample Description:

Work Order: 22K2542

Date Received: 11/17/2022

Field Sample #: MW-2

Sampled: 11/15/2022 13:35

Sample ID: 22K2542-03

Sample Matrix: Ground Water

**1,4-Dioxane by isotope dilution GC/MS**

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	25	0.21	0.034	µg/L	1		SW-846 8270E	11/20/22	11/30/22 11:44	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	22.0		15-110				11/30/22 11:44			

# Data Usability Summary Report

Vali-Data of WNY, LLC  
20 Hickory Grove Spur  
Fulton, NY 13069

Preferred Electric Motors  
Pace/Con-Test Analytical Laboratory SDG#22K2560  
March 20, 2024  
Sampling date: 11/15/2022

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
20 Hickory Grove Spur  
Fulton, NY 13069

Preferred Electric Motors  
SDG# 22K2560

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for TRC Engineers, Inc., project located at Preferred Electric Motors, SDG#22K2560 submitted to Vali-Data of WNY, LLC on December 26, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using the USEPA method Volatile Organics (8260D).

<b>ID</b>	<b>Sample ID</b>	<b>Laboratory ID</b>
1	MW-7	22K2560-01
2	MW-4	22K2560-02
3	MW-10	22K2560-03
4	DUP-01	22K2560-04
5	TRIP BLANK	22K2560-05
6	MW-9	22K2560-06
7	MW-3	22K2560-07
8	MW-5	22K2560-08
9	MW-2	22K2560-09

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

Preferred Electric Motors

SDG# 22K2560

## OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Laboratory Control Samples, Initial Calibration and Continuing Calibration.

Sample: DUSR ID#9 was diluted due to high target analyte concentration.

### DATA COMPLETENESS

All criteria were met.

### NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

### CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

### HOLDING TIMES

All holding times were met.

### INTERNAL STANDARD (IS)

All criteria were met.

### SURROGATE SPIKE RECOVERIES

All criteria were met.

### METHOD BLANK

All criteria were met.

### FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

### LABORATORY CONTROL SAMPLES

All criteria were met except a target analyte was outside QC limits in the laboratory control samples and should be qualified as estimated.

LCS ID	Target Analyte	%Rec LCS	%Rec LCSD	Qualifier	Associated Sample
B323785	Carbon disulfide	150	156	JH	9

The %Rec of some target analytes was outside QC limits, high, in the laboratory control samples but were not detected in the associated samples, so no further action is required.

Some target analytes were outside QC limits in the laboratory control sample or the laboratory control samples duplicate but not both, so no further action is required.

### MS/MSD

All criteria were met except a target analyte was outside QC limits, high in the matrix spikes but

was not detected in the associated sample, so no further action is required.  
 Some target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met except several target analytes were outside QC limit in the initial calibration and the initial calibration verification and should be qualified as estimated in the associated samples, blanks and spikes.

ICal/ICV ID	Target Analyte	%D/RRF	Qualifier	Associated Sample
ICalk/ICV GCMSVOA5	1,4-Dioxane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	Bromodichloromethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	Dibromochloromethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	1,2-Dibromoethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	1,2-Dichloropropane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	cis-1,3-Dichloropropene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	trans-1,3- Dichloropropene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	1,2,3-Trichlorobenzene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	1,2,4-Trichlorobenzene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	1,1,2-Trichloroethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
ICal/ICV GCMSVOA5	Trichloroethene	RRF	UJ/J	B232785, 1-9, 8MS/MSD

Alternate forms of regression were used on target analytes in which the %RSD > 20%, with acceptable results.

**CONTINUING CALIBRATION**

All criteria were met except a couple of target analytes were outside QC limits in the continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

Ccal ID	Target Analyte	%D/RRF	Qualifier	Associated Sample
S079881-CCV1	1,4-Dioxane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Bromodichloromethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Dibromochloromethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	1,2-Dibromoethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	1,2-Dichloropropane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	cis-1,3-Dichloropropene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	trans-1,3-Dichloropropene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	1,2,3-Trichlorobenzene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	1,2,4-Trichlorobenzene	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	1,1,2-Trichloroethane	RRF	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Bromomethane	61.1	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Carbon disulfide	46.7	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Methyl acetate	98.2	UJ/J	B232785, 1-9, 8MS/MSD
S079881-CCV1	Vinyl chloride	30.7	UJ/J	B232785, 1-8, 8MS/MSD

Some target analytes were outside laboratory QC limits but within NFG QC limits, so no further action is required.

#### **GC/MS PERFORMANCE CHECK**

All criteria were met.

**CASE NARRATIVE SUMMARY**

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

---

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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:**

**Bromomethane**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**Methyl Acetate**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

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**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:**

**Carbon Disulfide**

22K2560-09[MW-2], B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

---

**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:**

**Chloromethane**

B323785-BS1

---

**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:**

**Methyl Acetate**

B323785-MS1, B323785-MSD1

---

**MS-22**

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 within method specified criteria.

**Analyte & Samples(s) Qualified:**

**Carbon Disulfide**

B323785-MS1

---

**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:**

**cis-1,2-Dichloroethylene**

B323785-MS1

---

**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:**

**1,2-Dibromo-3-chloropropane (DBP)**

22K2560-01[MW-7], 22K2560-02[MW-4], 22K2560-03[MW-10], 22K2560-04[DUP-01], 22K2560-05[ Trip Blank], 22K2560-06[MW-9], 22K2560-07[MW-3], 22K2560-08[MW-5], 22K2560-09[MW-2], B323785-BLK1, B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

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**V-06**

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

**Analyte & Samples(s) Qualified:**

**Carbon Disulfide**

22K2560-09[MW-2], B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**Vinyl Chloride**

22K2560-08[MW-5], B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-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:****1,1,2-Trichloro-1,2,2-trifluoroethan**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**2-Hexanone (MBK)**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**4-Methyl-2-pentanone (MIBK)**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**Bromomethane**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**Chloromethane**

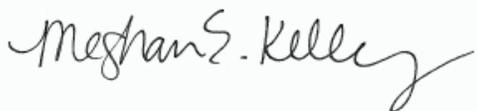
B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-CCV1

**Methyl Acetate**

B323785-BS1, B323785-BSD1, B323785-MS1, B323785-MSD1, S079881-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

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-7

Sampled: 11/15/2022 11:10

Sample ID: 22K2560-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-7

Sampled: 11/15/2022 11:10

Sample ID: 22K2560-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Trichloroethylene	0.51	1.0	0.19	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 18:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.9	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	97.8	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-7

Sampled: 11/15/2022 11:10

Sample ID: 22K2560-01

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 18:55	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-4

Sampled: 11/15/2022 11:50

Sample ID: 22K2560-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Chloroform	0.27	2.0	0.17	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-4

Sampled: 11/15/2022 11:50

Sample ID: 22K2560-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Trichloroethylene	0.21	1.0	0.19	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	97.7	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-4

Sampled: 11/15/2022 11:50

Sample ID: 22K2560-02

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 19:23	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-10

Sampled: 11/15/2022 12:40

Sample ID: 22K2560-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-10

Sampled: 11/15/2022 12:40

Sample ID: 22K2560-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 19:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	
Toluene-d8	98.9	70-130	
4-Bromofluorobenzene	97.7	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-10

Sampled: 11/15/2022 12:40

Sample ID: 22K2560-03

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 19:50	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: DUP-01

Sampled: 11/15/2022 12:00

Sample ID: 22K2560-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: DUP-01

Sampled: 11/15/2022 12:00

Sample ID: 22K2560-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Trichloroethylene	0.52	1.0	0.19	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	11/23/22 20:17
Toluene-d8	99.8	70-130	11/23/22 20:17
4-Bromofluorobenzene	95.7	70-130	11/23/22 20:17

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Sampled: 11/15/2022 12:00

Field Sample #: DUP-01

Sample ID: 22K2560-04

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 20:17	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: Trip Blank

Sampled: 11/15/2022 00:00

Sample ID: 22K2560-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: Trip Blank

Sampled: 11/15/2022 00:00

Sample ID: 22K2560-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 14:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.7	70-130	
Toluene-d8	98.7	70-130	
4-Bromofluorobenzene	99.9	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: Trip Blank

Sampled: 11/15/2022 00:00

Sample ID: 22K2560-05

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 14:21	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-9

Sampled: 11/15/2022 14:25

Sample ID: 22K2560-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
cis-1,2-Dichloroethylene	6.7	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-9

Sampled: 11/15/2022 14:25

Sample ID: 22K2560-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 20:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.9	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	95.7	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-9

Sampled: 11/15/2022 14:25

Sample ID: 22K2560-06

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 20:45	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-3

Sampled: 11/15/2022 12:50

Sample ID: 22K2560-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,1-Dichloroethane	0.38	1.0	0.14	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-3

Sampled: 11/15/2022 12:50

Sample ID: 22K2560-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:12	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.7	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	97.1	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-3

Sampled: 11/15/2022 12:50

Sample ID: 22K2560-07

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 21:12	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-5

Sampled: 11/15/2022 11:20

Sample ID: 22K2560-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
cis-1,2-Dichloroethylene	19	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
trans-1,2-Dichloroethylene	0.85	1.0	0.17	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-5

Sampled: 11/15/2022 11:20

Sample ID: 22K2560-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Trichloroethylene	9.0	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Vinyl Chloride	0.69	2.0	0.21	µg/L	1	V-06, J	SW-846 8260D	11/22/22	11/23/22 21:39	EEH
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 21:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.9	70-130	
Toluene-d8	96.6	70-130	
4-Bromofluorobenzene	95.0	70-130	

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-5

Sampled: 11/15/2022 11:20

Sample ID: 22K2560-08

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 21:39	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-2

Sampled: 11/15/2022 13:35

Sample ID: 22K2560-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Benzene	36	1.0	0.20	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Bromoform	ND	2.0	0.38	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Carbon Disulfide	4.2	5.0	1.4	µg/L	1	L-06, V-06, J	SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Chloroethane	110	2.0	0.32	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Cyclohexane	17	5.0	1.8	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1	V-05	SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,1-Dichloroethane	52	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,1-Dichloroethylene	1.2	1.0	0.14	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
cis-1,2-Dichloroethylene	160	1.0	0.15	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
trans-1,2-Dichloroethylene	88	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Isopropylbenzene (Cumene)	0.40	1.0	0.11	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Methyl Cyclohexane	3.1	1.0	0.24	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Toluene	0.28	1.0	0.22	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-2

Sampled: 11/15/2022 13:35

Sample ID: 22K2560-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Trichloroethylene	0.64	1.0	0.19	µg/L	1	J	SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.23	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH
Vinyl Chloride	54	10	1.0	µg/L	5		SW-846 8260D	11/26/22	11/29/22 13:57	MF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	11/22/22	11/23/22 23:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.9	70-130	11/23/22 23:01
1,2-Dichloroethane-d4	94.5	70-130	11/29/22 13:57
Toluene-d8	97.1	70-130	11/29/22 13:57
Toluene-d8	96.8	70-130	11/23/22 23:01
4-Bromofluorobenzene	96.2	70-130	11/23/22 23:01
4-Bromofluorobenzene	100	70-130	11/29/22 13:57

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

Project Location: Rochester, NY

Sample Description:

Work Order: 22K2560

Date Received: 11/17/2022

Field Sample #: MW-2

Sampled: 11/15/2022 13:35

Sample ID: 22K2560-09

Sample Matrix: Ground Water

**Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)**

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	11/22/22	11/23/22 23:01	EEH

## LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B323785	Laboratory ID:	B323785-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.	QC LIMITS REC.
Acetone	100	118	118	70 - 160
Benzene	10.0	9.62	96.2	70 - 130
Bromochloromethane	10.0	10.9	109	70 - 130
Bromodichloromethane	10.0	9.75	97.5	70 - 130
Bromoform	10.0	8.49	84.9	70 - 130
Bromomethane	10.0	16.4	164 *	40 - 160
2-Butanone (MEK)	100	121	121	40 - 160
tert-Butyl Alcohol (TBA)	100	101	101	40 - 160
Carbon Disulfide	100	150	150 *	70 - 130
Carbon Tetrachloride	10.0	9.05	90.5	70 - 130
Chlorobenzene	10.0	9.79	97.9	70 - 130
Chlorodibromomethane	10.0	9.53	95.3	70 - 130
Chloroethane	10.0	13.0	130	70 - 130
Chloroform	10.0	9.73	97.3	70 - 130
Chloromethane	10.0	16.2	162 *	40 - 160
Cyclohexane	10.0	12.2	122	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	10.0	8.00	80.0	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.3	103	70 - 130
1,2-Dichlorobenzene	10.0	9.28	92.8	70 - 130
1,3-Dichlorobenzene	10.0	9.24	92.4	70 - 130
1,4-Dichlorobenzene	10.0	9.24	92.4	70 - 130
Dichlorodifluoromethane (Freon 12)	10.0	9.05	90.5	40 - 160
1,1-Dichloroethane	10.0	9.88	98.8	70 - 130
1,2-Dichloroethane	10.0	10.5	105	70 - 130
1,1-Dichloroethylene	10.0	10.2	102	70 - 130
cis-1,2-Dichloroethylene	10.0	10.4	104	70 - 130
trans-1,2-Dichloroethylene	10.0	9.83	98.3	70 - 130
1,2-Dichloropropane	10.0	10.8	108	70 - 130
cis-1,3-Dichloropropene	10.0	9.58	95.8	70 - 130
trans-1,3-Dichloropropene	10.0	9.51	95.1	70 - 130
1,4-Dioxane	100	111	111	40 - 130
Ethylbenzene	10.0	9.87	98.7	70 - 130
2-Hexanone (MBK)	100	128	128	70 - 160
Isopropylbenzene (Cumene)	10.0	9.72	97.2	70 - 130
Methyl Acetate	10.0	20.1	201 *	70 - 130
Methyl tert-Butyl Ether (MTBE)	10.0	10.2	102	70 - 130
Methyl Cyclohexane	10.0	12.0	120	70 - 130

## LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Matrix:	Water	Preparation:	SW-846 5030B
Batch:	B323785	Laboratory ID:	B323785-BS1
Column:		Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC.	QC LIMITS REC.
Methylene Chloride	10.0	10.8	108	70 - 130
4-Methyl-2-pentanone (MIBK)	100	123	123	70 - 160
Styrene	10.0	9.94	99.4	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.89	98.9	70 - 130
Tetrachloroethylene	10.0	11.4	114	70 - 130
Toluene	10.0	10.4	104	70 - 130
1,2,3-Trichlorobenzene	10.0	11.0	110	70 - 130
1,2,4-Trichlorobenzene	10.0	9.85	98.5	70 - 130
1,1,1-Trichloroethane	10.0	9.17	91.7	70 - 130
1,1,2-Trichloroethane	10.0	11.0	110	70 - 130
Trichloroethylene	10.0	11.0	110	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	9.71	97.1	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	12.5	125	70 - 130
1,2,3-Trimethylbenzene	10.0	9.19	91.9	70 - 130
1,2,4-Trimethylbenzene	10.0	8.79	87.9	70 - 130
1,3,5-Trimethylbenzene	10.0	9.99	99.9	70 - 130
Vinyl Chloride	10.0	12.8	128	40 - 160
m+p Xylene	20.0	19.8	99.0	70 - 130
o-Xylene	10.0	9.96	99.6	70 - 130
Xylenes (total)	30.0	29.8	99.2	0 - 200

ANALYTE	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC. #	QC LIMITS		
				% RPD #	RPD	REC.
Acetone	100	121	121	2.11	25	70 - 160
Benzene	10.0	9.75	97.5	1.34	25	70 - 130
Bromochloromethane	10.0	11.6	116	5.69	25	70 - 130
Bromodichloromethane	10.0	10.2	102	4.61	25	70 - 130
Bromoform	10.0	9.00	90.0	5.83	25	70 - 130
Bromomethane	10.0	17.0	170	* 3.78	25	40 - 160
2-Butanone (MEK)	100	126	126	3.59	25	40 - 160
tert-Butyl Alcohol (TBA)	100	98.7	98.7	2.08	25	40 - 160
Carbon Disulfide	100	156	156	* 4.03	25	70 - 130
Carbon Tetrachloride	10.0	9.88	98.8	8.77	25	70 - 130
Chlorobenzene	10.0	9.85	98.5	0.611	25	70 - 130
Chlorodibromomethane	10.0	9.87	98.7	3.51	25	70 - 130

## INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Calibration:	2200387	Instrument:	GCMSVOA5
		Calibration Date:	7/7/2022 12:43:46PM

COMPOUND	Mean RF	RF RSD	Linear r <sup>2</sup>	Quad COD	LIMIT	Q
Acetone	9.101406E-02	16.3			20	
Acrolein	5.472203E-02	8.5			20	
Acrylonitrile	0.1311394	17.4			20	
tert-Amyl Methyl Ether (TAME)	0.5608053	10.8			20	
Benzene	1.063173	14.7			20	
Bromobenzene	0.5388494	11.3			20	
Bromochloromethane	0.1808582	15.5			20	
Bromodichloromethane	0.225037	11.8			20	
Bromoform	0.2532449	19.5			20	
Bromomethane	0.2376271	19.2			20	
2-Butanone (MEK)	8.919309E-02	9.4			20	
tert-Butyl Alcohol (TBA)	2.846904E-02	12.4			20	
n-Butylbenzene	1.134508	14.0			20	
sec-Butylbenzene	1.591628	13.1			20	
tert-Butylbenzene	1.104901	13.3			20	
tert-Butyl Ethyl Ether (TBEE)	0.5809885	10.8			20	
Carbon Disulfide	0.812931	18.0			20	
Carbon Tetrachloride	0.3842661	12.0			20	
Chlorobenzene	1.070716	10.8			20	
Chlorodibromomethane	0.1767305	18.8			20	
Chloroethane	0.2105891	11.8			20	
2-Chloroethyl Vinyl Ether	9.600866E-02	14.3			20	
Chloroform	0.4863716	8.8			20	
Chloromethane	0.2406294	16.2			20	
2-Chlorotoluene	1.093958	10.3			20	
4-Chlorotoluene	1.071968	12.5			20	
Cyclohexane	0.363488	15.3			20	
1,2-Dibromo-3-chloropropane (DBCP)	5.308492E-02	10.5			20	
1,2-Dibromoethane (EDB)	0.1635486	12.6			20	
Dibromomethane	0.1124607	11.8			20	
1,2-Dichlorobenzene	0.6779016	12.5			20	

## INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Calibration:	2200387	Instrument:	GCMSVOA5
		Calibration Date:	7/7/2022 12:43:46PM

COMPOUND	Mean RF	RF RSD	Linear r <sup>2</sup>	Quad COD	LIMIT	Q
1,3-Dichlorobenzene	0.7754591	11.6			20	
1,4-Dichlorobenzene	0.8084011	9.7			20	
trans-1,4-Dichloro-2-butene	8.829412E-02	17.4			20	
Dichlorodifluoromethane (Freon 12)	0.4022097	17.7			20	
1,1-Dichloroethane	0.4334408	8.8			20	
1,2-Dichloroethane	0.2350683	11.8			20	
1,1-Dichloroethylene	0.5529267	12.2			20	
cis-1,2-Dichloroethylene	0.3344812	8.8			20	
trans-1,2-Dichloroethylene	0.3529381	13.1			20	
Dichlorofluoromethane (Freon 21)	0.7047023	10.9			20	
1,2-Dichloropropane	0.1612025	7.6			20	
1,3-Dichloropropane	0.241836	11.8			20	
2,2-Dichloropropane	0.3456874	12.1			20	
1,1-Dichloropropene	0.347008	13.1			20	
cis-1,3-Dichloropropene	0.2342481	14.8			20	
trans-1,3-Dichloropropene	0.1836711	19.4			20	
Diethyl Ether	0.225415	10.2			20	
Difluorochloromethane (Freon 22)	0.3098818	17.1			20	
Diisopropyl Ether (DIPE)	0.5940544	9.4			20	
1,4-Dioxane	1.714151E-03	15.6			20	
Ethanol	4.715595E-03	17.5			20	
Ethyl Acetate	0.1884963	10.4			20	
Ethylbenzene	1.660609	12.2			20	
Hexachlorobutadiene	0.1669807	17.1			20	
2-Hexanone (MBK)	0.0842195	15.0			20	
Iodomethane	0.5430627	16.3			20	
Isopropylbenzene (Cumene)	1.689125	12.4			20	
p-Isopropyltoluene (p-Cymene)	1.265358	14.2			20	
Methyl Acetate	0.2091366	18.4			20	
Methyl tert-Butyl Ether (MTBE)	0.5700071	9.4			20	
Methyl Cyclohexane	0.2508493	18.3			20	

## INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Calibration:	2200387	Instrument:	GCMSVOA5
		Calibration Date:	7/7/2022 12:43:46PM

COMPOUND	Mean RF	RF RSD	Linear r <sup>2</sup>	Quad COD	LIMIT	Q
Methylene Chloride	0.4397685	19.0			20	
4-Methyl-2-pentanone (MIBK)	0.1236491	15.3			20	
Naphthalene	0.6376513	14.3			20	
n-Propylbenzene	1.848886	14.7			20	
Styrene	0.9584286	15.2			20	
1,1,1,2-Tetrachloroethane	0.3639461	14.2			20	
1,1,2,2-Tetrachloroethane	0.4058312	14.3			20	
Tetrachloroethylene	0.2086485	14.5			20	
Tetrahydrofuran	5.448806E-02	14.6			20	
Toluene	0.7544425	9.1			20	
1,2,3-Trichlorobenzene	0.2240913	18.3			20	
1,2,4-Trichlorobenzene	0.2997155	16.5			20	
1,3,5-Trichlorobenzene	0.3989584	14.9			20	
1,1,1-Trichloroethane	0.4067151	11.7			20	
1,1,2-Trichloroethane	0.1442387	13.3			20	
Trichloroethylene	0.18644	10.9			20	
Trichlorofluoromethane (Freon 11)	0.6601166	13.5			20	
1,2,3-Trichloropropane	0.3024328	11.2			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.3506838	19.7			20	
1,2,3-Trimethylbenzene	1.229393	11.8			20	
1,2,4-Trimethylbenzene	1.235382	12.0			20	
1,3,5-Trimethylbenzene	1.182357	17.4			20	
Vinyl Acetate	0.4518911	14.7			20	
Vinyl Chloride	0.2956986	31.3	0.995		0.99	
m+p Xylene	1.329008	13.7			20	
o-Xylene	1.284711	13.8			20	
1,2-Dichloroethane-d4	0.5146619	8.4			20	
Toluene-d8	1.158716	1.8			20	
4-Bromofluorobenzene	0.8438215	3.1			20	

## INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Instrument ID:	GCMSVOA5	Calibration:	2200387
Lab File ID:	E22V18830.D	Calibration Date:	07/07/22 12:43
Sequence:	S073885	Injection Date:	07/08/22
Lab Sample ID:	S073885-ICV1	Injection Time:	06:17

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR		% DIFF / DRIFT		LIMIT (#)
		STD	ICV	ICAL	ICV	MIN (#)	ICV	
Acetone	A	100	96.6	9.101406E-02	8.794568E-02		-3.4	30
Acrolein	A	100	54.1	5.472203E-02	0.0296176		-45.9	30 *
Acrylonitrile	A	10.0	8.57	0.1311394	0.112418		-14.3	30
tert-Amyl Methyl Ether (TAME)	A	10.0	9.73	0.5608053	0.5456609		-2.7	30
Benzene	A	10.0	9.17	1.063173	0.9751829		-8.3	30
Bromobenzene	A	10.0	10.2	0.5388494	0.5512631		2.3	30
Bromochloromethane	A	10.0	10.2	0.1808582	0.1845148		2.0	30
Bromodichloromethane	A	10.0	9.81	0.225037	0.2207296		-1.9	30
Bromoform	A	10.0	9.16	0.2532449	0.2319606		-8.4	30
Bromomethane	A	10.0	8.87	0.2376271	0.2107404		-11.3	30
2-Butanone (MEK)	A	100	94.0	8.919309E-02	8.384628E-02		-6.0	30
tert-Butyl Alcohol (TBA)	A	100	95.8	2.846904E-02	2.725782E-02		-4.3	30
n-Butylbenzene	A	10.0	9.34	1.134508	1.059794		-6.6	30
sec-Butylbenzene	A	10.0	10.0	1.591628	1.592871		0.08	30
tert-Butylbenzene	A	10.0	9.61	1.104901	1.062278		-3.9	30
tert-Butyl Ethyl Ether (TBEE)	A	10.0	9.67	0.5809885	0.5617011		-3.3	30
Carbon Disulfide	A	10.0	12.0	0.812931	0.9769803		20.2	30
Carbon Tetrachloride	A	10.0	9.14	0.3842661	0.3510869		-8.6	30
Chlorobenzene	A	10.0	10.1	1.070716	1.08076		0.9	30
Chlorodibromomethane	A	10.0	9.33	0.1767305	0.1649507		-6.7	30
Chloroethane	A	10.0	9.10	0.2105891	0.1915679		-9.0	30
Chloroform	A	10.0	9.41	0.4863716	0.457545		-5.9	30
Chloromethane	A	10.0	8.00	0.2406294	0.1925769		-20.0	30
2-Chlorotoluene	A	10.0	9.13	1.093958	0.9992184		-8.7	30
4-Chlorotoluene	A	10.0	10.0	1.071968	1.076287		0.4	30
Cyclohexane	A	10.0	10.2	0.363488	0.3725614		2.5	30
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	10.6	5.308492E-02	5.632691E-02		6.1	30
1,2-Dibromoethane (EDB)	A	10.0	9.80	0.1635486	0.1602543		-2.0	30
Dibromomethane	A	10.0	9.51	0.1124607	0.1070058		-4.9	30

## INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Instrument ID:	GCMSVOA5	Calibration:	2200387
Lab File ID:	E22V18830.D	Calibration Date:	07/07/22 12:43
Sequence:	S073885	Injection Date:	07/08/22
Lab Sample ID:	S073885-ICV1	Injection Time:	06:17

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR		% DIFF / DRIFT		
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dichlorobenzene	A	10.0	9.94	0.6779016	0.6736208		-0.6	30
1,3-Dichlorobenzene	A	10.0	9.70	0.7754591	0.7520413		-3.0	30
1,4-Dichlorobenzene	A	10.0	9.49	0.8084011	0.7675597		-5.1	30
trans-1,4-Dichloro-2-butene	A	10.0	9.52	8.829412E-02	8.405621E-02		-4.8	30
Dichlorodifluoromethane (Freon 12)	A	10.0	8.23	0.4022097	0.3311365		-17.7	30
1,1-Dichloroethane	A	10.0	9.68	0.4334408	0.4196203		-3.2	30
1,2-Dichloroethane	A	10.0	9.04	0.2350683	0.2124783		-9.6	30
1,1-Dichloroethylene	A	10.0	8.63	0.5529267	0.4772011		-13.7	30
cis-1,2-Dichloroethylene	A	10.0	9.84	0.3344812	0.3292024		-1.6	30
trans-1,2-Dichloroethylene	A	10.0	8.77	0.3529381	0.3096409		-12.3	30
Dichlorofluoromethane (Freon 21)	A	10.0	9.14	0.7047023	0.6438782		-8.6	30
1,2-Dichloropropane	A	10.0	9.70	0.1612025	0.1562937		-3.0	30
1,3-Dichloropropane	A	10.0	9.37	0.241836	0.2266293		-6.3	30
2,2-Dichloropropane	A	10.0	10.2	0.3456874	0.3520013		1.8	30
1,1-Dichloropropene	A	10.0	9.05	0.347008	0.3140136		-9.5	30
cis-1,3-Dichloropropene	A	10.0	9.98	0.2342481	0.233691		-0.2	30
trans-1,3-Dichloropropene	A	10.0	10.8	0.1836711	0.1981554		7.9	30
Diethyl Ether	A	10.0	9.83	0.225415	0.2216932		-1.7	30
Difluorochloromethane (Freon 22)	A	10.0	8.18	0.3098818	0.2535108		-18.2	30
Diisopropyl Ether (DIPE)	A	10.0	10.0	0.5940544	0.5972503		0.5	30
1,4-Dioxane	A	100	98.8	1.714151E-03	1.69427E-03		-1.2	30
Ethanol	A	100	92.2	4.715595E-03	4.350614E-03		-7.7	30
Ethyl Acetate	A	10.0	8.57	0.1884963	0.1614531		-14.3	30
Ethylbenzene	A	10.0	10.0	1.660609	1.662582		0.1	30
Hexachlorobutadiene	A	10.0	9.43	0.1669807	0.1574868		-5.7	30
2-Hexanone (MBK)	A	100	100	0.0842195	8.447767E-02		0.3	30
Iodomethane	A	10.0	10.9	0.5430627	0.5915952		8.9	30
Isopropylbenzene (Cumene)	A	10.0	9.86	1.689125	1.665914		-1.4	30

## INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Instrument ID:	GCMSVOA5	Calibration:	2200387
Lab File ID:	E22V18830.D	Calibration Date:	07/07/22 12:43
Sequence:	S073885	Injection Date:	07/08/22
Lab Sample ID:	S073885-ICV1	Injection Time:	06:17

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR		% DIFF / DRIFT		
		STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
p-Isopropyltoluene (p-Cymene)	A	10.0	10.2	1.265358	1.295022		2.3	30
Methyl Acetate	A	10.0	12.6	0.2091366	0.2640536		26.3	30
Methyl tert-Butyl Ether (MTBE)	A	10.0	9.36	0.5700071	0.5333733		-6.4	30
Methyl Cyclohexane	A	10.0	9.94	0.2508493	0.2493204		-0.6	30
Methylene Chloride	A	10.0	9.36	0.4397685	0.4116528		-6.4	30
4-Methyl-2-pentanone (MIBK)	A	100	96.3	0.1236491	0.1190974		-3.7	30
Naphthalene	A	10.0	11.0	0.6376513	0.698298		9.5	30
n-Propylbenzene	A	10.0	9.69	1.848886	1.791328		-3.1	30
Styrene	A	10.0	9.97	0.9584286	0.9559948		-0.3	30
1,1,1,2-Tetrachloroethane	A	10.0	9.69	0.3639461	0.352561		-3.1	30
1,1,2,2-Tetrachloroethane	A	10.0	10.2	0.4058312	0.4149745		2.3	30
Tetrachloroethylene	A	10.0	9.45	0.2086485	0.1972615		-5.5	30
Tetrahydrofuran	A	10.0	11.3	5.448806E-02	6.136478E-02		12.6	30
Toluene	A	10.0	9.60	0.7544425	0.7241631		-4.0	30
1,2,3-Trichlorobenzene	A	10.0	10.6	0.2240913	0.2376297		6.0	30
1,2,4-Trichlorobenzene	A	10.0	10.2	0.2997155	0.3050199		1.8	30
1,3,5-Trichlorobenzene	A	10.0	9.40	0.3989584	0.3750269		-6.0	30
1,1,1-Trichloroethane	A	10.0	9.49	0.4067151	0.3861525		-5.1	30
1,1,2-Trichloroethane	A	10.0	9.80	0.1442387	0.1414069		-2.0	30
Trichloroethylene	A	10.0	9.28	0.18644	0.1730095		-7.2	30
Trichlorofluoromethane (Freon 11)	A	10.0	8.92	0.6601166	0.5890935		-10.8	30
1,2,3-Trichloropropane	A	10.0	10.1	0.3024328	0.3061287		1.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.7	0.3506838	0.3736756		6.6	30
1,2,3-Trimethylbenzene	A	10.0	9.45	1.229393	1.161947		-5.5	30
1,2,4-Trimethylbenzene	A	10.0	9.77	1.235382	1.206764		-2.3	30
1,3,5-Trimethylbenzene	A	10.0	9.89	1.182357	1.168889		-1.1	30
Vinyl Acetate	A	100	85.5	0.4518911	0.3864194		-14.5	30
Vinyl Chloride	L	10.0	9.73	0.2956986	0.2073453		-2.7	30

## CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Instrument ID:	GCMSVOA5	Calibration:	2200387
Lab File ID:	E22V32703.D	Calibration Date:	07/07/22 12:43
Sequence:	S079881	Injection Date:	11/23/22
Lab Sample ID:	S079881-CCV1	Injection Time:	12:03

COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100	119	9.101406E-02	0.1085902		19.3	20
Benzene	A	10.0	9.49	1.063173	1.008454		-5.1	20
Bromochloromethane	A	10.0	11.0	0.1808582	0.1990264		10.0	20
Bromodichloromethane	A	10.0	10.2	0.225037	0.2290524		1.8	20
Bromoform	A	10.0	9.05	0.2532449	0.229126		-9.5	20
Bromomethane	A	10.0	16.1	0.2376271	0.3829215		61.1	20 *
2-Butanone (MEK)	A	100	116	8.919309E-02	0.1037216		16.3	20
tert-Butyl Alcohol (TBA)	A	100	97.2	2.846904E-02	2.765746E-02		-2.9	20
Carbon Disulfide	A	100	147	0.812931	1.192458		46.7	20 *
Carbon Tetrachloride	A	10.0	9.30	0.3842661	0.35746		-7.0	20
Chlorobenzene	A	10.0	9.84	1.070716	1.053417		-1.6	20
Chlorodibromomethane	A	10.0	9.99	0.1767305	0.176478		-0.1	20
Chloroethane	A	10.0	11.9	0.2105891	0.2513769		19.4	20
Chloroform	A	10.0	9.90	0.4863716	0.4814844		-1.0	20
Chloromethane	A	10.0	12.4	0.2406294	0.2994899		24.5	20 *
Cyclohexane	A	10.0	12.0	0.363488	0.437127		20.3	20 *
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	7.54	5.308492E-02	4.001877E-02		-24.6	20 *
1,2-Dibromoethane (EDB)	A	10.0	10.5	0.1635486	0.1723321		5.4	20
1,2-Dichlorobenzene	A	10.0	9.00	0.6779016	0.6098911		-10.0	20
1,3-Dichlorobenzene	A	10.0	8.99	0.7754591	0.6970431		-10.1	20
1,4-Dichlorobenzene	A	10.0	8.86	0.8084011	0.7162496		-11.4	20
Dichlorodifluoromethane (Freon 12)	A	10.0	9.17	0.4022097	0.3687449		-8.3	20
1,1-Dichloroethane	A	10.0	9.88	0.4334408	0.4281609		-1.2	20
1,2-Dichloroethane	A	10.0	10.6	0.2350683	0.2496302		6.2	20
1,1-Dichloroethylene	A	10.0	10.0	0.5529267	0.5541495		0.2	20
cis-1,2-Dichloroethylene	A	10.0	10.4	0.3344812	0.3479848		4.0	20
trans-1,2-Dichloroethylene	A	10.0	9.78	0.3529381	0.3451204		-2.2	20
1,2-Dichloropropane	A	10.0	10.7	0.1612025	0.1717814		6.6	20
cis-1,3-Dichloropropene	A	10.0	10.1	0.2342481	0.2371228		1.2	20

## CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	22K2560
Client:	NYDEC_TRC Engineers, Inc. - New York, NY	Project:	Preferred Electronic Motors - CO SMPA0001
Instrument ID:	GCMSVOA5	Calibration:	2200387
Lab File ID:	E22V32703.D	Calibration Date:	07/07/22 12:43
Sequence:	S079881	Injection Date:	11/23/22
Lab Sample ID:	S079881-CCV1	Injection Time:	12:03

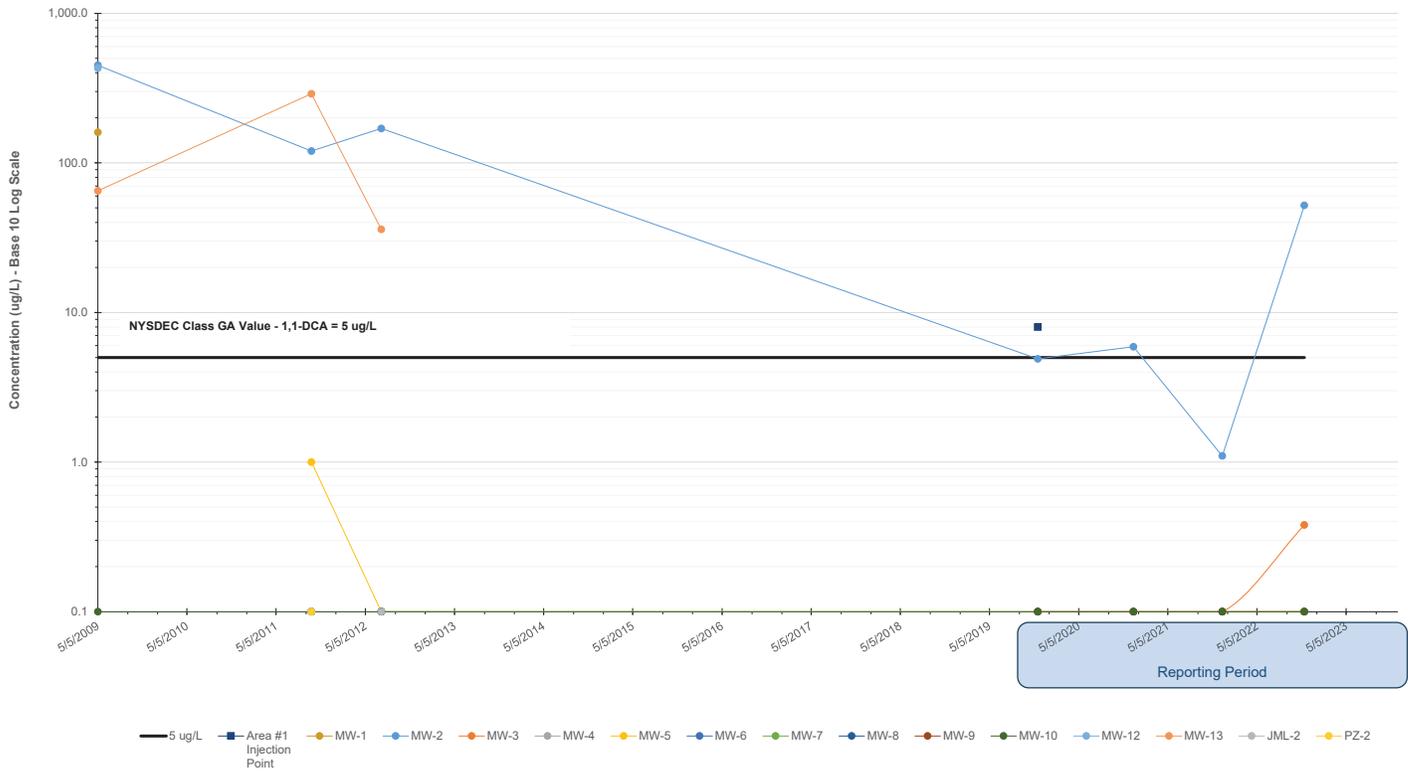
COMPOUND	TYPE	CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
trans-1,3-Dichloropropene	A	10.0	9.81	0.1836711	0.1801239		-1.9	20
1,4-Dioxane	A	100	104	1.714151E-03	1.789403E-03		4.4	20
Ethylbenzene	A	10.0	9.79	1.660609	1.625436		-2.1	20
2-Hexanone (MBK)	A	100	125	0.0842195	0.1055431		25.3	20 *
Isopropylbenzene (Cumene)	A	10.0	9.55	1.689125	1.613061		-4.5	20
Methyl Acetate	A	10.0	19.8	0.2091366	0.4145845		98.2	20 *
Methyl tert-Butyl Ether (MTBE)	A	10.0	10.4	0.5700071	0.5907775		3.6	20
Methyl Cyclohexane	A	10.0	11.7	0.2508493	0.2924063		16.6	20
Methylene Chloride	A	10.0	11.2	0.4397685	0.4935695		12.2	20
4-Methyl-2-pentanone (MIBK)	A	100	126	0.1236491	0.1560901		26.2	20 *
Styrene	A	10.0	9.71	0.9584286	0.9310491		-2.9	20
1,1,2,2-Tetrachloroethane	A	10.0	10.0	0.4058312	0.4065806		0.2	20
Tetrachloroethylene	A	10.0	11.2	0.2086485	0.2331098		11.7	20
Toluene	A	10.0	10.1	0.7544425	0.7613159		0.9	20
1,2,3-Trichlorobenzene	A	10.0	10.2	0.2240913	0.2288728		2.1	20
1,2,4-Trichlorobenzene	A	10.0	9.59	0.2997155	0.2872953		-4.1	20
1,1,1-Trichloroethane	A	10.0	9.54	0.4067151	0.3881592		-4.6	20
1,1,2-Trichloroethane	A	10.0	11.2	0.1442387	0.1610716		11.7	20
Trichloroethylene	A	10.0	10.8	0.18644	0.2017905		8.2	20
Trichlorofluoromethane (Freon 11)	A	10.0	9.69	0.6601166	0.6397089		-3.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	12.4	0.3506838	0.4331896		23.5	20 *
1,2,3-Trimethylbenzene	A	10.0	8.89	1.229393	1.093241		-11.1	20
1,2,4-Trimethylbenzene	A	10.0	8.47	1.235382	1.046738		-15.3	20
1,3,5-Trimethylbenzene	A	10.0	9.78	1.182357	1.155964		-2.2	20
Vinyl Chloride	L	10.0	13.1	0.2956986	0.272137		30.7	20 *
m+p Xylene	A	20.0	19.5	1.329008	1.293828		-2.6	20
o-Xylene	A	10.0	9.82	1.284711	1.262119		-1.8	20
1,2-Dichloroethane-d4	A	25.0	23.1	0.5146619	0.4753973		-7.6	
Toluene-d8	A	25.0	24.6	1.158716	1.141721		-1.5	



**APPENDIX G**

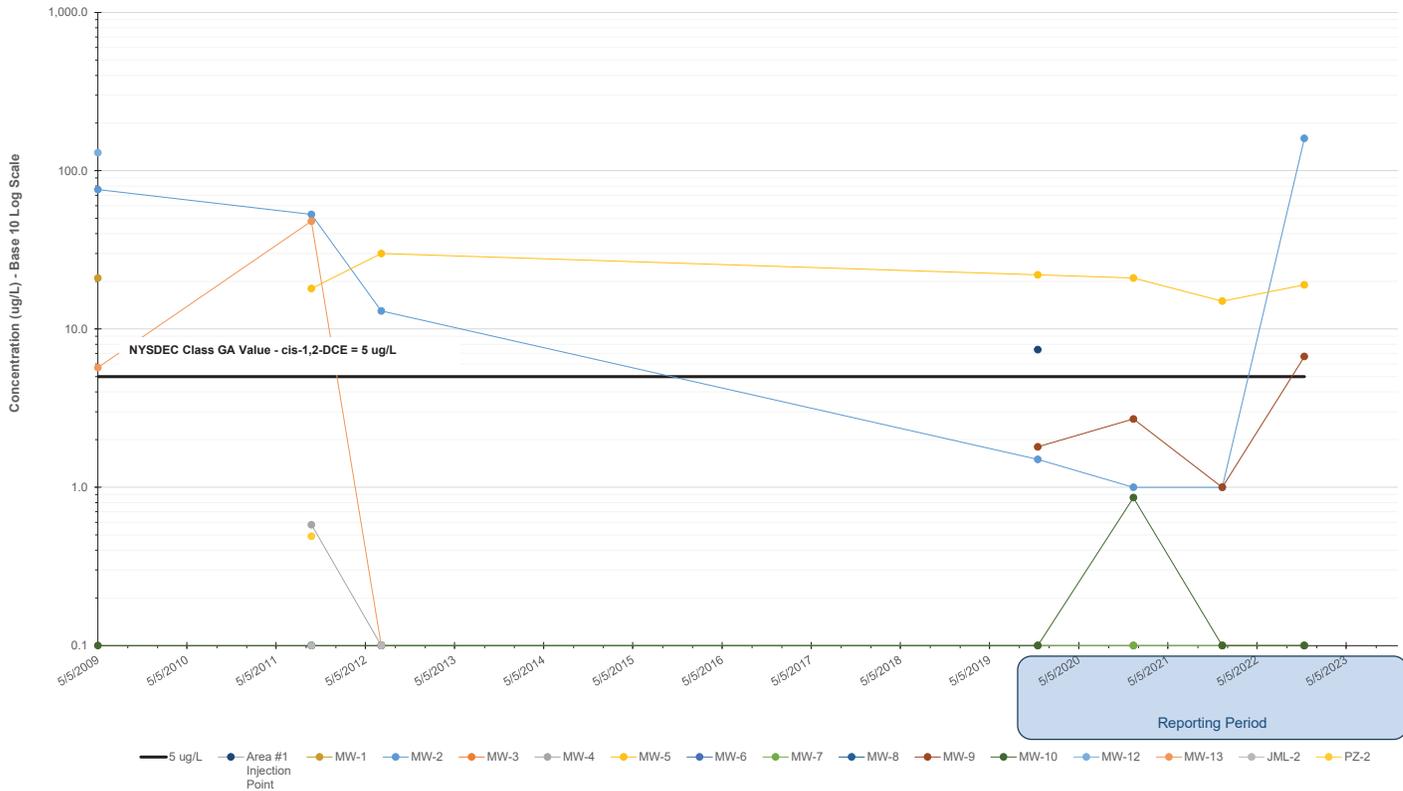
Notes  
 1) Non-detect values plotted at 0.1 mg/L.  
 2) Continuous data history is not available for all wells. Data from individual sampling events may be plotted as singular points.

New York State Department of Environmental Conservation  
 Preferred Electric Motors, Inc. Site - Site No. 828106  
 Rochester, New York  
 1,1-DCA Trend



**Notes**  
 1) Non-detect values plotted at 0.1 mg/L.  
 2) Continuous data history is not available for all wells. Data from individual sampling events may be plotted as singular points.

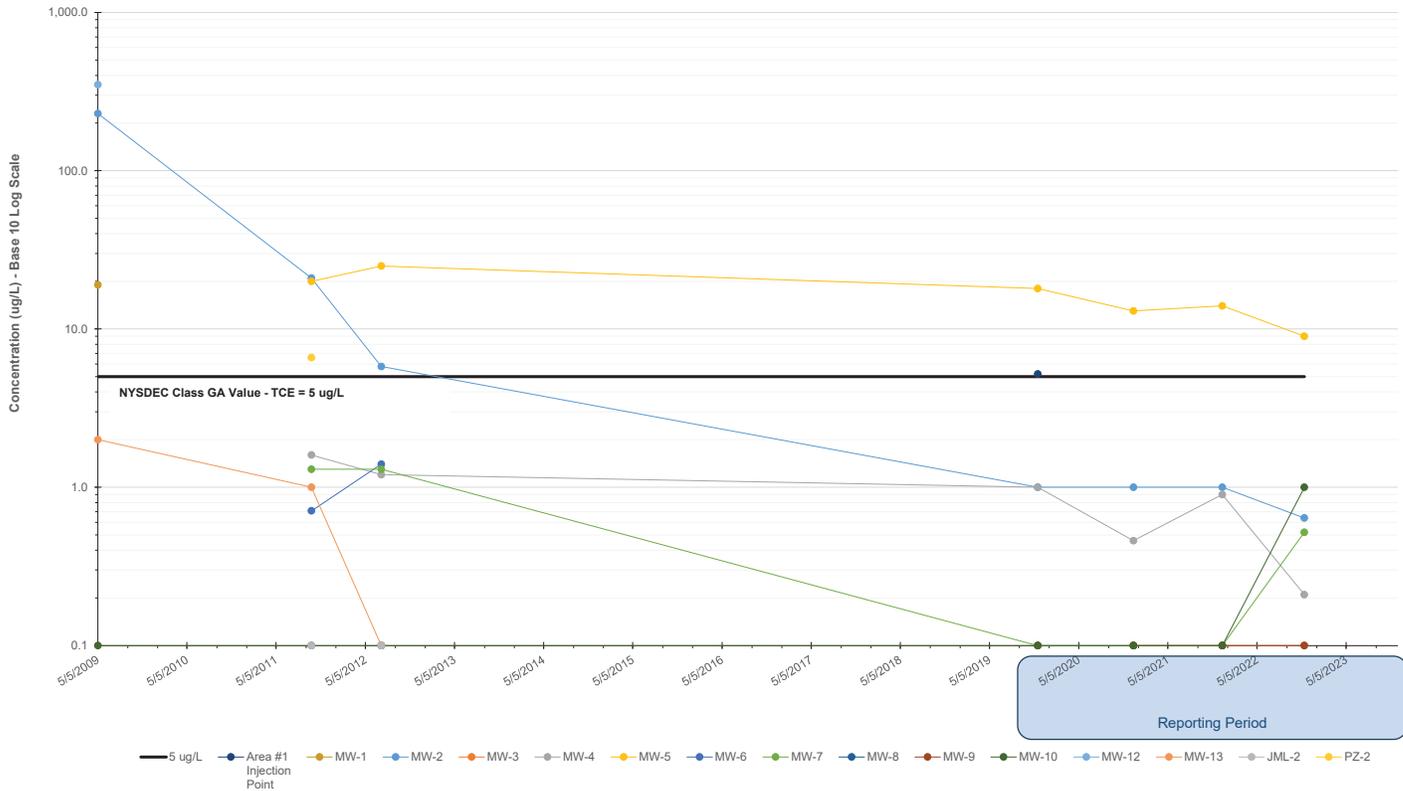
New York State Department of Environmental Conservation  
 Preferred Electric Motors, Inc. Site - Site No. 828106  
 Rochester, New York  
 cis-1,2-DCE Trend



**Notes**

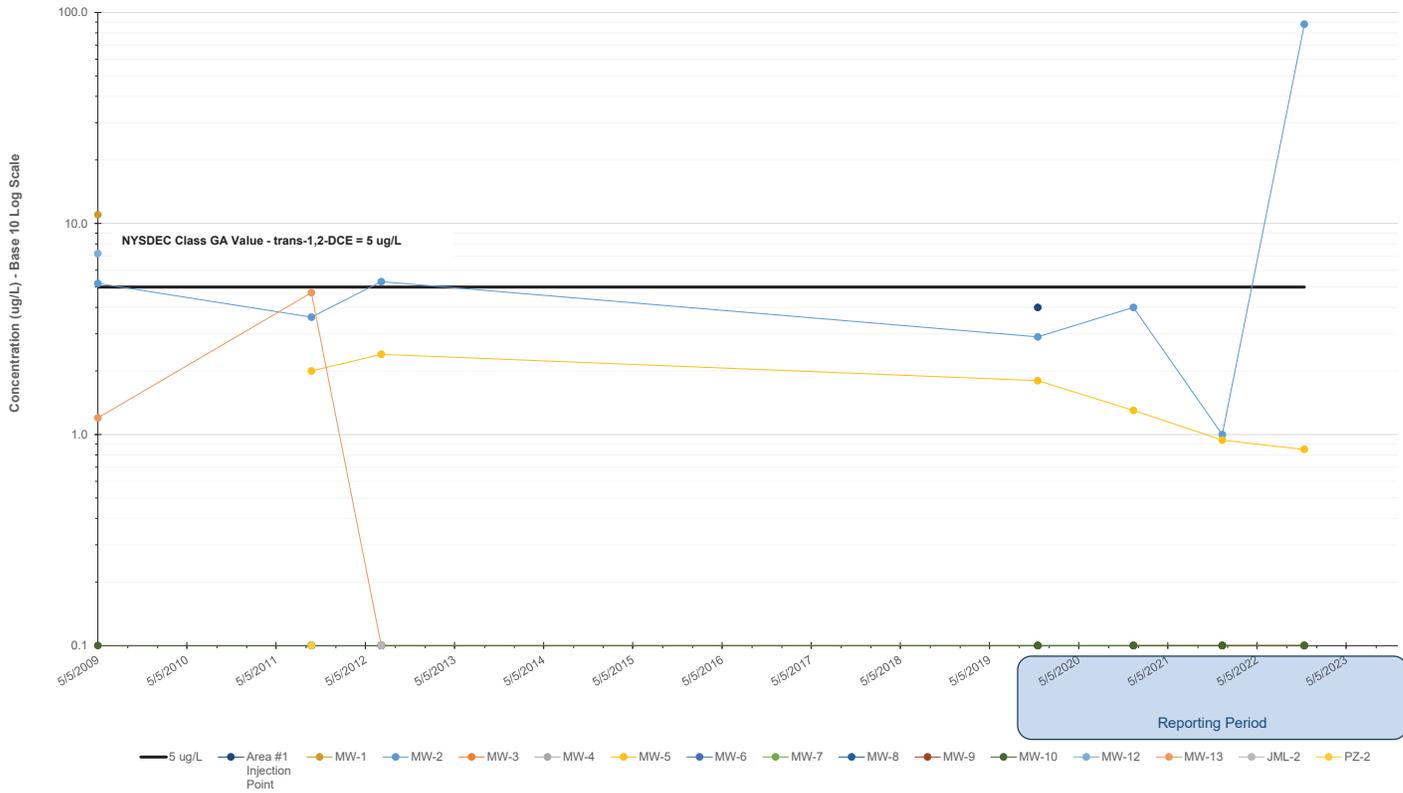
- 1) Non-detect values plotted at 0.1 mg/L.
- 2) Continuous data history is not available for all wells. Data from individual sampling events may be plotted as singular points.

**New York State Department of Environmental Conservation  
Preferred Electric Motors, Inc. Site - Site No. 828106  
Rochester, New York  
TCE Trend**



**Notes**  
 1) Non-detect values plotted at 0.1 mg/L.  
 2) Continuous data history is not available for all wells. Data from individual sampling events may be plotted as singular points.

New York State Department of Environmental Conservation  
 Preferred Electric Motors, Inc. Site - Site No. 828106  
 Rochester, New York  
 trans-1,2-DCE Trend



**Notes**  
 1) Non-detect values plotted at 0.1 mg/L.  
 2) Continuous data history is not available for all wells. Data from individual sampling events may be plotted as singular points.

New York State Department of Environmental Conservation  
 Preferred Electric Motors, Inc. Site - Site No. 828106  
 Rochester, New York  
 Vinyl Chloride Trend

