PSG

PERIODIC REVIEW REPORT

700 Out Parcel, LLC

NYSDEC Site No. C734111

701-709 East Water Street

Syracuse, New York 13202

PSG Project Number: 21-340263

March 12, 2024

Prepared for:

AMERCO Real Estate Company

2727 North Central Avenue

Phoenix, Arizona 85004

Engineers who understand your business

March 12, 2024

Sarah Johnston
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Subject: **Periodic Review Report - 2024**
700 Out Parcel, LLC
701-709 East Water Street
Syracuse, New York 13202
PSG Project Number: ES21-340263
NYSDEC Site Number: C734111

Dear Ms. Johnston,

PSG Engineering and Geology, D.P.C. (PSG) is pleased to provide this Periodic Review Report (PRR) for the property identified as the 700 Out Parcel, LLC property, located at 701-709 East Water Street in the City of Syracuse, Onondaga County, New York.

Sincerely,

PSG Engineering and Geology, D.P.C.

David R. Lent, P.G.
Technical Director, Environmental Solutions Group

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LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
DUSR	Data Usability Summary Report
ECs	Engineering Controls
ESA	Environmental Site Assessment
ELAP	Environmental Laboratory Accreditation Program
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
ICs	Institutional Controls
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYC DOT	New York City Department of Transportation
NYC OER	New York City Office of Environmental Remediation
OSHA	United States Occupational Health and Safety Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PE	Professional Engineer
PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SVOCs	Semi-Volatile Organic Compounds
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tank
TAL	Target Analyte List
TCL	Target Compound List
VOCs	Volatile Organic Compounds

1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) has been prepared for the 700 Out Parcel LLC property located at 701-709 East Water Street, Syracuse, New York (the "Site), in accordance with Section 6.3 of the Department of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010). This PRR documents inspection and efficacy of the Institutional Controls (IC) and Engineering Controls (EC) implemented at the Site during the reporting period of March 03, 2023 to March 03, 2024.

1.1 Introduction

The Site is a registered New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site, identified by Site No. C734111. The Site is currently being managed by a NYSDEC-approved Site Management Plan (SMP), dated December 2016 (revised March 2017). This and future Periodic Review Reports (PRRs) are a required element of the SMP.

The Site was formerly a gasoline filling station from 1949 to 1964. and was subsequently used as a parking lot. Underground storage tanks (USTs), associated with the Site's use as a gasoline station, were removed in 2006. Subsurface soil and groundwater contamination exists as a result of the Site's historical usage.

Remedial activities, including the implementation of ECs and ICs, were completed at the Site in November 2016. The SMP is included as **Attachment A**.

1.2 Effectiveness of Remedial Program

The remedial strategy that has been adopted at the Site (including all ECs and ICs) has to date been an effective and appropriate method of controlling exposure to remaining contamination in the subsurface. Analytical data has trended in the direction of achieving remedial objectives.

1.3 Compliance

During the reporting period of March 03, 2023, to March 03, 2024, a small portion of the Site was paved. According to representatives from the Site, this was done sometime in July 2023, and was done to prevent gravel from migrating into the roadways from on-site vehicle traffic. During the paving, monitoring well MW-7 was destroyed/lost.

All other required elements of the SMP have been appropriately observed and remain in compliance.

1.4 Recommendations

PSG has the following recommendations for the Site:

- PSG recommends that monitoring well MW-7 be located and properly decommissioned, as it was observed to be destroyed/lost. Since monitoring well MW-7 is included in the PRR monitoring program for monitoring of field parameters only, PSG recommends that MW-7 be removed from the PRR monitoring well network.
- PSG recommends that the frequency of PRRs will remain on an annual schedule. Monitoring in 2025 will consist of a single annual event.

2.0 SITE OVERVIEW

2.1 Site Location

The Site is located in the City of Syracuse, County of Onondaga, New York (**Figure 1**). AMERCO Real Estate Company (AREC) is the current owner of the Site. The Site consists of two parcels of land, totaling 0.44 acres, located at the northeast corner of East Water Street and Almond Street, in the City of Syracuse, New York. The parcels have addresses of 701 and 709 East Water Street.

The Site is bordered to the north by Erie Boulevard East, beyond which is Firestone Complete Auto Care and commercial buildings, to the east by U-Haul Moving and Storage of Midtown Syracuse, to the south by East Water Street, beyond which is the Syracuse Center of Excellence, and to the west by Almond Street.

2.1.1 Current Site Features

The Site is currently developed with a gravel-covered parking lot for the storage of U-Haul vehicles. Historically, a chain link fence with locked gate extended around the perimeter, but has been recently removed. The gravel cover system is in-place. Refer to **Figure 2** for a Site Map.

2.1.2 Nature and Extent of Contamination

From 1949 to 1964, the Site operated as a gasoline filling station. Since 1964, the Site has been used as a parking lot. In 2002, four USTs were identified, and soils on the sides of the USTs exhibited petroleum staining and odors. Upon discovery of the petroleum-impacted soils, the NYSDEC Spill Hotline was called, and spill ID Number 01-11549 (March 7, 2002) was assigned to the Site.

In 2006, seven USTs were removed from the Site: four 1,000-gallon gasoline USTs, one 4,200-gallon gasoline UST, one 550-gallon fuel oil UST, and one 550-gallon waste oil UST. Approximately 1,800 tons of contaminated soil was removed and staged onsite for future disposal. The NYSDEC Spill Hotline was called, and spill ID Number 06-10014 (December 4, 2006) was assigned to the Site. A Brownfield Cleanup Agreement (Index# B7-0743-07-05, Site No. C73411) was executed on October 31, 2007.

In May 2008, as an Interim Remedial Measure, the staged soils were removed from the Site and disposed at a regulated landfill. Beardsley Design Associates (BDA) completed a Remedial Investigation (RI) report, dated October 2013. In general, historic fill material up to approximately 5 feet below original ground surface is contaminated with polynuclear aromatic hydrocarbons (PAHs) and metals, while groundwater and deeper soils are contaminated with VOCs related to gasoline.

The contaminants of concern listed below exceeded the applicable NYSDEC Soil Cleanup Guidance Values (SCGs) and groundwater guidance values / standards: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropylbenzene, toluene, xylene, n-propylbenzene, naphthalene, sec-butylbenzene, butylbenzene, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo[k]fluoranthene, chrysene, indeno(1,2,3-CD)pyrene, dibenz[a,h]anthracene, arsenic, barium, and cyanide.

2.2 Remedial Program

2.2.1 Chronology

Interim remedial measures were performed in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan (dated April 2008). The Site was remediated in accordance with the Decision Document (dated February 2016) and the Remedial Action Work Plan (dated August 2015). Remedial activities were completed at the Site in November 2016. A certificate of completion was issued in November 2017.

2.2.2 Components of the Remedial Program

The following are the components of the selected remedy:

- Maintenance of a cover system consisting of a one-foot layer of crusher run gravel on top of an orange fabric demarcation barrier to prevent human exposure to contaminated soil/fill remaining at the Site.
- Groundwater contamination is being addressed by monitored natural attenuation (MNA).
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.
- Implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement.

2.2.3 Cleanup Goals and Site Closure Criteria

Groundwater contamination at the Site is being mitigated via MNA, while the gravel cover system prevents public exposure to contaminated soils and groundwater. The composite cover system is a permanent control, and the quality and integrity of this system will continue to be inspected at defined, regular intervals in perpetuity.

In accordance with the SMP, groundwater monitoring activities to assess natural attenuation will continue on an annual basis until the NYSDEC determines that residual groundwater concentrations in hydraulically-downgradient wells are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level, within an order-of-magnitude, and as compared to hydraulically-upgradient wells due to the potential for contaminants to migrate onto the Site from adjacent properties. At that point, monitoring will continue on an annual basis for an additional three years or until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC (and as compared to hydraulically-upgradient wells) a provision for treating the groundwater will be evaluated. Selection of the specific remedial technology will consider the monitoring data, but it is currently anticipated that injection of oxygen releasing compounds (ORC) would be used.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

2.2.4 Significant Changes to the Selected Remedy

No significant changes have been made to the selected remedy since remedial activities were completed in November 2016.

3.0 EVALUATION OF REMEDY PERFORMANCE & EFFECTIVENESS

The Site remedy is currently being evaluated via observations of the gravel cover and monitoring of natural attenuation. Quantitative data to evaluate the performance and effectiveness of the selected remedy has been generated during annual groundwater monitoring events (discussed in Section 5.0 below).

The February 2024 groundwater monitoring event indicated that contaminant concentrations decreased at monitoring well MW-8 since the last sampling event. Since 2018, groundwater data have demonstrated a static or decreased level of contamination, indicating that the remedial program has been and remains effective. Previous PRRs for the Site specifically note monitoring well MW-9, where total VOC concentrations have decreased nearly two orders of magnitude since the remedial investigation in 2012. The historical data have indicated that MW-9 was located closer to the edge of the plume than MW-8, which has also indicated a decreasing trend. Groundwater quality/MNA indicators also appear to be favorable for continued natural attenuation.

Since there are currently no active systems employed at the Site, there are no more quantitative means of correlating and evaluating the effectiveness of the current remedy.

From a qualitative perspective, it is observed that the Site is effectually isolated from the public. The gravel cover system (engineering control) remains in-place and institutional controls continue to be followed.

4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC Requirements

The site-specific IC/ECs are summarized below.

4.1.1 Engineering Controls

Exposure to remaining contamination in soil/fill at the Site is prevented by a gravel cover system placed over a demarcation layer (US Fabric 65HVO ORANGE Warning Barrier) across the entire site. The cover material is comprised of a minimum of 12 inches of clean crusher run gravel meeting the requirements of DER-10 Section 5.5.

During the groundwater monitoring event on February 15, 2024, PSG personnel inspected the cover system. A small portion of the gravel cover system was paved over. PSG has determined that the cover system remains in good condition. No significant damage or disturbance to the cover system was noted. As such, it remains an effective engineering control. Refer to **Attachment B** (Site Inspection Form) and **Attachment C** (Site Inspection Photograph Log).

4.1.2 Institutional Controls

ICs are required by the Decision Document to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial and industrial uses only.

Site-specific ICs include:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs at the Site must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and
- 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 property owner to assure compliance with the restrictions identified in the Environmental Easement.

The Site has a series of ICs in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the controlled property are:

- The property may only be used for commercial or industrial use provided that the long-term ECs and ICs included in this SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Onondaga 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;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed;
- Vegetable gardens and farming on the property are prohibited; and
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

4.1.3 Method of Evaluation

The IC/ECs are evaluated by performance of monitoring events and annual site-wide inspections. Site-wide inspections are also to be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form is completed. The inspection collects sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirmation that site records are up to date.

4.1.4 Effectiveness of Controls

The annual Site inspection occurred on February 15, 2024.

The completed Site inspection form is included as **Attachment B**. Photographs taken during the Site inspection are included in **Attachment C**.

No severe condition (erosion, flooding event, or similar) has occurred since the implementation of the SMP. As such, no severe condition inspection has occurred to date.

Engineering Controls

The cover appeared to be in good condition. It remains in-place and effective.

Institutional Controls

The following table includes a list of all site restrictions that apply to the Site, and an assessment as to their adherence and effectiveness to date:

Site Restriction	Assessment	Compliant/ Effective?
The Site may only be used for commercial or industrial use provided that the long-term IC/ECs included in the SMP are employed.	The property is currently used as an occasional-use parking lot (commercial use).	Yes
The Site may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC.	The property is currently used as an occasional-use parking lot (commercial use).	Yes
All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP.	N/A	Yes
The use of the groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Onondaga 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 underlying the property is not being used.	Yes
Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed.	The annual site-wide inspection satisfies this requirement.	Yes
Vegetable gardens and farming on the property are prohibited.	There are no vegetable gardens or farming occurring at the property.	Yes
The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.	The certifications attached to this PRR satisfy this requirement.	Yes

4.1.5 Corrective Measures

During the March 15, 2022, inspection, a 55-gallon drum containing purge water, was observed on the Site. On July 20, 2022, the 55-gallon drums of purge water was transported under proper manifest and disposed of at EQ Detroit, Inc., located in Detroit, Michigan.

In August 2022, PSG was notified about damages to the Site cover (gravel cover system) and demarcation layer (US Fabric 65HVO ORANGE Warning Barrier). The City of Syracuse damaged these ECs during sidewalk installation activities. In November 2022, the site cover system and demarcation layer were restored. This incident was documented in an Incident Report prepared by PSG, dated November 21, 2022, which was approved by the NYSDEC via an email dated November 22, 2022.

During the February 7, 2023, inspection, PSG observed that the perimeter fence has been removed. Additionally, PSG observed that monitoring well MW-4 was damaged and is no longer viable for groundwater monitoring. Since monitoring well MW-4 is not included in the PRR monitoring program, PSG recommended that MW-4 be properly decommissioned. In addition, for Site logistical reasons, the property owner requested NYSDEC approval to leave the perimeter fence down indefinitely.

Based on March 15, 2023 correspondence with the NYSDEC, PSG obtained approval to decommission MW-4. On April 18, 2023, Nature's Way Contracting, under the direction of PSG, decommissioned groundwater monitoring well MW-4. The monitoring well that was decommissioned is depicted on **Figure 2**. The monitoring well decommissioning activities were conducted in conformance with NYSDEC Policy CP-43: Groundwater Monitoring Well Decommissioning, dated November 3, 2009.

Procedures:

1. The well was tremie grouted from the bottom of the well to within five feet of the ground surface to ensure a continuous grout column. Grout slurry composition was as follows:
    a. 1.5 to 3.0 percent by weight - Bentonite (Quick Gel)
    b. 40 to 60 percent by weight - Cement (Portland Type I)
    c. 40 to 60 percent by weight - Water
2. The outer protective casing flush-mount curb box was removed after the well had been properly filled with grout.
3. The surface of the borehole was restored with asphalt.
4. The solid waste was handled as non-investigative waste.
5. Well construction details were documented in a Well Decommissioning Record form.

The monitoring well was grouted from the bottom-up in one continuous operation through a tremie pipe. The grout was set for a minimum of 24 hours and no depressions or settlements were observed. The monitoring well decommissioning activities were conducted by Nature's Way Contracting, a licensed drilling company in the State of New York.

No other corrective measures have been performed to date.

4.1.6 Conclusions and Recommendations

The IC/ECs remain compliant and effective.

4.2 IC/EC Certification

The completed forms certified by the Owner, Remedial Party, Designated Representative, and Licensed Professional for the Owner/Remedial Party are presented as **Attachment D** to this report.

5.0 MONITORING PLAN COMPLIANCE

5.1 Monitoring Plan

PSG conducted an annual groundwater monitoring event on February 15, 2024. The scope was dictated by the requirements set forth in the SMP, which was revised on January 24, 2022. The SMP requires periodic sampling of monitoring wells MW-8 and MW9 at the Site and the collection of groundwater field parameter data from monitoring wells MW-5, MW-7, MW-8, and MW-9.

During this monitoring event, the following activities were performed at the Site:

- Located and assessed the general condition of each monitoring well;
- Measured the concentration of volatile vapors within each well riser;
- Measured the depth to groundwater at each monitoring well location;
- If biofouling or silt accumulation was observed, the well was physically agitated/surged and redeveloped;
- Purged and sampled wells with a peristaltic pump using low-flow methodologies;
- Used a real-time water quality monitoring meter to record field parameters (pH, temperature, turbidity, dissolved oxygen, oxidation-reduction potential (ORP), and specific conductance) at monitoring wells MW-5, MW-8, and MW-9. Monitoring well MW-7 was observed to be lost or destroyed; and
- Collected a groundwater sample from MW-8 and MW-9, for laboratory analysis of Target Compound List (TCL) VOCs via USEPA Method 8260, and Metals (iron and manganese) via EPA method 6010.

Groundwater monitoring activities to assess natural attenuation are currently being performed in accordance with the SMP. The following table lists the wells respective analyses:

Monitoring Well	Parameters
MW-5	Groundwater field parameters only
MW-7	Groundwater field parameters only**
MW-8	TCL VOCs, Iron and Manganese, and field parameters
MW-9	TCL VOCs, Iron and Manganese and field parameters

**MW-7 was lost/destroyed in July 2023; therefore, no groundwater field parameters were collected.

PSG personnel used a peristaltic pump to purge the wells via the following low-flow methodology:

- A headspace reading was collected using a PID;
- Depth to water was measured to the nearest hundredth (.01) of a foot using a water level indicator;
- Water column was purged using low-flow procedures;

- Field parameters including pH, oxygen reduction potential (ORP), specific conductivity, dissolved oxygen, temperature, and depth to water were collected for approximately 30 to 60 minutes or until field parameters stabilized;
- Upon stabilization of field parameters, dedicated tubing was used to obtain each groundwater sample; and
- Sample containers were placed into a chilled cooler and maintained at low temperature (below 4-degrees Celsius) for transport to the laboratory.

Analysis of applicable field duplicates, matrix spike/matrix spike duplicates (MS/MSD), and trip blanks was performed according to the protocol defined in the SMP. During this round of sampling, the field duplicate (DUP) was a split sample originating from monitoring well MW-8.

The samples were submitted to Alpha Analytical Labs (Alpha), a state-certified laboratory (ELAP certificate number 11148), located in Westborough, MA.

5.2 Summary of Monitoring During the Reporting Period

AREC acquired the Site in March 2022, and NYSDEC BCP responsibilities have been transferred to AREC. One sampling event was required in 2021; however, based upon the prior 2020-2021 PRR prepared by Bradford Engineering, D.P.C., PSG understands that the results of the annual groundwater monitoring have been included in the respective PRR in lieu of submitting a separate groundwater monitoring event report. The sampling event for calendar year 2024 was conducted by PSG on February 15, 2024.

5.3 Comparisons with Remedial Objectives

5.3.1 Assessment of Analytical Data

The following table summarizes all exceedances of applicable NYSDEC groundwater standards and guidance values published in the NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) Memorandum 1.1.1 during the February 15, 2024, sampling event:

Monitoring Well	Well Location/Description	VOC Exceedances	Metals Exceedances
MW-8	Center-West portion of Site (within contaminant plume)	Benzene, Ethylbenzene, 1,2,4,5-Tetramethylbenzene, 1,2,4-Trimethylbenzene, o-Xylene, and p/m-Xylene.	Iron and Manganese
MW-9	Center-East portion of Site (approximate downgradient edge of contaminant plume)	None	Iron

VOCs

The VOCs benzene, ethylbenzene, 1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, o-xylene, and p/m-xylene exceeded their respective NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQS).

Benzene was detected at a concentration of 1.2 µg/l in MW-8, exceeding its TOGS AWQS of 1 µg/l. Ethylbenzene was detected at a concentration of 14 µg/l in MW-8, exceeding its TOGS AWQS of 5 µg/l.

1,2,4,5-tetramethylbenzene was detected at a concentration of 18 µg/l in MW-8, exceeding its TOGS AWQS of 5 µg/l. 1,2,4-trimethylbenzene was detected at a concentration of 51 µg/l in MW-8, exceeding its TOGS AWQS of 5 µg/l. o-Xylene was detected at a concentration of 6.2 µg/l in MW-8, exceeding its TOGS AWQS of 5 µg/l. p/m-Xylene was detected at a concentration of 5.3 µg/l in MW-8, exceeding its TOGS AWQS of 5 µg/l.

All other targeted VOCs were either not detected ("ND") or were detected below the TOGS AWQS in groundwater samples MW-8 and MW-9.

Metals

Iron was detected at a concentration of 10,900 µg/l in MW-8 and at a concentration of 2,130 µg/l in MW-9, exceeding its TOGS AWQS of 300 µg/l. Manganese was detected at a concentration of 1,101 µg/l in MW-8, exceeding its TOGS AWQS of 300 µg/l.

Refer to **Table 1** for the Groundwater Results, **Appendix E** for a copy of the low-flow sampling sheets, and **Appendix F** for the Laboratory Analytical Report.

5.3.2 Comparison of Analytical Data to Previous Analytical Results

BTEX (benzene, toluene, ethylbenzene, and xylenes) and other gasoline-related VOCs have been consistently detected in samples collected from monitoring well MW-8. The following tables depict the trend in total VOCs and BTEX concentration over the course of the 2020, 2022, 2023, and 2024 sampling events.

Monitoring Well MW-8

As shown on the following table, the average individual BTEX concentrations detected at MW-8 decreased compared to the 2023 sampling event; and have generally declined since sampling in 2018.

Compound	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2020	2022	2023	2024
Benzene	34.2	ND	7	29	5.2	1	6.8	1.2
Ethylbenzene	352	160	120	300	220	116	170	14
Toluene	49.4	15	15	62	16	3.7	30	2.3
Xylenes	714	730	266	930	242	206	300	12
Total VOCs	4,118	3,201	1,222	1,924	844	926	892	141.7

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)

Monitoring Well MW-9

As shown on the following table, the average individual BTEX and total VOC concentrations at MW-9 decreased slightly compared to the 2019 sampling event and have declined by 1 to 2 orders of magnitude since 2012. All VOC concentrations identified since the March 2018 sampling event have been less than their applicable groundwater standards.

Compound	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2020	2022	2023	2024
Benzene	ND	0.3	0.3	0.5	0.24	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	ND	0.27	0.46	0.20	ND	ND	ND

Compound	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2020	2022	2023	2024
Total VOCs	105	132	156	16	3.3	ND	4.86	2.81

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)

5.3.3 Assessment of Field-Measured Parameters

On the day of the sampling, once the well caps were removed, PSG used a photo-ionization detector (PID) to measure the concentration of volatile vapors that had accumulated at the top of each well. A summary of volatile vapor detections from each of the four wells is included in the following table, alongside the previous three monitoring event results:

Monitoring Well	Peak PID Reading (ppmV)			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
MW-4	0.0	0.0	N/A**	N/A**
MW-5	0.0	0.0	0.0	0.0
MW-6	0.0	0.0	0.0	0.0
MW-7	0.0	0.0	0.0	N/A**
MW-8	1070.0	980.0	850.0	20.3
MW-9	0.0	0.0	0.0	0.0

**MW-4 and MW-7 have been decommissioned or lost/damaged and could not be gauged

A noticeable petroleum odor was observed when the well cap was removed from MW-8. No petroleum odors were observed when the well covers and caps were removed from the remaining wells.

The following table summarizes the depth to groundwater recorded during the past four monitoring events:

Monitoring Well	Depth to Groundwater (from top of riser)			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
MW-4	10.46	9.52	N/A**	N/A**
MW-5	8.72	9.10	10.49	11.17
MW-6	8.82	9.91	10.98	11.29
MW-7	14.05	13.30	13.49	N/A**
MW-8	12.10	11.34	11.69	12.04
MW-9	14.67	14.40	14.42	14.56

*Although monitoring wells MW-6 is not part of the groundwater monitoring scope detailed in the SMP, PSG measured groundwater elevation at this well during this sampling event to better define the groundwater flow across the Site.

**MW-4 and MW-7 have been decommissioned or lost/damaged and could not be gauged

Groundwater elevation contours are depicted presented on **Figure 3**. The contours indicate that groundwater generally flows from the northwest to southeast, similar to past monitoring events.

Groundwater field parameters were evaluated for comparison between different monitoring well locations over time. Data were also compared to MNA indicators and values established by the EPA and discussed in the New Jersey's Department of Environmental Protection's Monitored Natural Attenuation Technical Guidance document, dated March 2012.

Groundwater parameters from the past four sampling events are presented in the summary table below:

Parameter	Monitoring Event			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
Monitoring Well MW-5				
Temperature (°C)	11.07	10.21	10.21	10.25
pH	6.44	7.26	6.98	7.13
Specific Conductivity (mS/cm)	4.22	7.35	8.29	9.54
Dissolved Oxygen (mg/L)	8.04	4.47	2.51	4.62
RedOx Potential (mV)	59	96	138	101
Turbidity (NTU)	33	138	9.8	9.2

Parameter	Monitoring Event			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
Monitoring Well MW-7				
Temperature (°C)	13.35	12.37	12.26	N/A**
pH	6.21	7.45	6.96	N/A**
Specific Conductivity (mS/cm)	6.71	2.58	10.2	N/A**
Dissolved Oxygen (mg/L)	0.87	0.01	0.0	N/A**
RedOx Potential (mV)	-106	16	-24	N/A**
Turbidity (NTU)	1.1	128	8.9	N/A**

** MW-7 was lost/damaged and could not be gauged/sampled

Parameter	Monitoring Event			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
Monitoring Well MW-8				
Temperature (°C)	12.58	11.40	11.33	10.28
pH	6.58	7.42	6.62	7.15
Specific Conductivity (mS/cm)	1.52	1.11	1.48	1.77
Dissolved Oxygen (mg/L)	6.95	0.0	0.0	0.50
RedOx Potential (mV)	-123	-177	-62	-87
Turbidity (NTU)	5.3	73	0.0	12.3

Parameter	Monitoring Event			
	01/20/2021	03/15/2022	02/07/2023	02/15/2024
Monitoring Well MW-9				
Temperature (°C)	11.97	11.98	10.95	9.92
pH	6.50	7.72	6.62	7.10
Specific Conductivity (mS/cm)	1.78	2.07	3.50	2.63
Dissolved Oxygen (mg/L)	5.50	1.20	0.0	1.68
RedOx Potential (mV)	-75	-58	63	-10
Turbidity (NTU)	34.5	50	436	310

Temperature

Groundwater temperature influences the metabolic activity of microorganisms in groundwater and warmer groundwater can both encourage further bacterial degradation and be a result of the breakdown process.

Groundwater temperatures fluctuated seasonally over the course of 2021 to 2024. Within specific monitoring events, groundwater tends to be coolest at MW-9 locations.

pH

The pH influences the presence and activity of the microbial population in groundwater. Microorganisms capable of degrading hydrocarbons generally prefer pH values varying from 6 to 8 standard units, while a range between 5 and 9 is generally necessary for any aerobic or anaerobic process to occur, as they are pH sensitive.

The pH values measured at all four monitoring wells have been relatively neutral, and are within the preferred range for microbial degradation to occur.

Specific Conductance

Groundwater conductivity is directly proportional to the ions in a solution. Significant trends in specific conductance as they relate to the biodegradation process have not been observed to date.

Dissolved Oxygen

Biodegradation occurs differently in two environments: anaerobic (less than 0.5 mg/L) or aerobic (greater than 0.5 mg/L) conditions.

Where aerobic biodegradation of fuel constituents is occurring, microorganisms utilize available oxygen as they biodegrade BTEX (and other petroleum compounds), and any oxygen entering this zone is rapidly depleted. Thus, an inverse correlation between DO and BTEX concentrations is an indication that aerobic biodegradation is occurring in the subsurface.

Significant trends in dissolved oxygen have not been observed to date.

Oxidation Reduction Potential

The ORP values in groundwater commonly vary from -400 mV to as much as 800 mV, but certain biodegradation processes can only occur within a specific range of ORP conditions. Lower ORP values in groundwater suggest the occurrence of biodegradation. In general, ORP values less than -100 mV are a strong indicator that biodegradation is occurring.

The historic ORP values at MW-8 have consistently remained near or less than -100 mV, and this trend continued during 2024 (-87 mV). MW-5 had an ORP value of 101 and MW-9 had an ORP value of -10 mV.

Turbidity

A turbidity of less than 50 NTU is necessary to ensure that suspended sediment does not influence the analytical results of groundwater analysis.

Turbidity levels greater than 50 NTU were observed during the 2024 sampling event in MW-9; however, samples exhibited a clear appearance during sampling. PSG believes the elevated turbidity readings were due to sediment trapped inside the meter.

5.4 Data Usability Summary Report (DUSR)

Per the SMP, the validity of the data generated during each monitoring event must be evaluated by a qualified data usability reviewer responsible for determining the usability and acceptability of the analytical data, in accordance with NYSDEC-DUSR Guidance.

Mr. Don Anne, of Alpha Geoscience, who meets the standard of a qualified data usability reviewer, prepared the DUSR for this monitoring event. The DUSR has been included as **Attachment G** of this report. The Summary of Groundwater Analytical Data (**Table 1**) attached to this report includes the added qualifiers from the DUSR review process.

The data package contained the documentation as required by NYSDEC Analytical Services protocols (ASP). Proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of VOCs, iron, and manganese analyses for 2 ground water samples, 1 field duplicate, and 1 field blank and the results of volatile analysis for 1 trip blank.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile result for ethylbenzene was qualified as estimated, biased high (J+) for sample MW-8 because 1 of 2 percent recoveries for ethylbenzene was above QC limits in the aqueous MS/MSD sample.
- The "not detected" volatile result for 2,2-dichloropropane was qualified as estimated (UJ) for sample MW-8 because 1 of 2 percent recoveries for 2,2-dichloropropane was below QC limits, but not below 30% in the aqueous MS/MSD sample.
- The positive volatile results for p/m-xylene, isopropylbenzene, and n-propylbenzene were qualified as estimated (J) for samples MW-8 and DUP because the relative percent differences for p/m-xylene, isopropylbenzene, and n-propylbenzene were above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.
- The positive volatile result for ethylbenzene was qualified as estimated (J) for sample DUP because the relative percent difference for ethylbenzene was above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.
- The positive metal results for manganese were qualified as estimated, biased high (J+) for samples MW-8, MW-9, and DUP because 1 of 2 percent recoveries for manganese was above QC limits in the associated aqueous MS/MSD sample.
- The positive metal results for iron were qualified as estimated (J) for samples MW-8 and DUP because the relative percent difference for iron was above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.

All data are considered usable with estimated (J+, J, or UJ) data associated with a higher level of

quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

5.5 Monitoring Deficiencies

PSG was unable to monitor groundwater parameters in MW-7. During the 2024 site inspection, PSG observed that MW-7 had been paved over and the well appears to have been lost or destroyed. No other monitoring deficiencies were noted during the 2024 calendar year.

5.6 Conclusions and Recommendations

VOC concentrations decreased slightly at monitoring well MW-8 since the last sampling event and overall VOC concentrations have decreased since 2018. Trends in BTEX concentrations at MW-8 verify that MNA remains a viable method of remediating the Site.

As seen in the comparison of analytical data from this 2024 monitoring event to the previous data (2018, 2019, 2020, 2022, and 2023), natural attenuation has resulted in a significant reduction of contamination in the area of MW-9. Detected concentrations of VOCs at MW-9 have been below applicable groundwater standards and guidance values since 2018.

PSG has the following recommendations for the Site:

- In accordance with the site's SMP, monitoring in 2025 will consist of a single annual event in the first quarter of 2025.
- PSG recommends that monitoring well MW-7 be located and properly decommissioned, as it was observed to be destroyed/lost. Since monitoring well MW-7 is included in the PRR monitoring program for monitoring of field parameters only, PSG recommends that MW-7 be removed from the PRR monitoring well network.

6.0 OPERATIONS & MAINTENANCE PLAN COMPLIANCE

The remedial program does not include any equipment that is subject to an O&M Plan.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 Compliance with SMP

7.1.1 IC/ECs

Requirements of the SMP as it pertains to IC/ECs were met during the reporting period. The next PRR report will pertain to the 2025 calendar year, with an anticipated date of completion of April 2025.

7.1.2 Monitoring

The requirements of the SMP and applicable groundwater monitoring were met during the reporting period. In accordance with the site's SMP, monitoring in 2024 will consist of a single event. The next monitoring event is scheduled to occur in the Fall 2024 or early Winter 2025.

7.1.3 O&M

MW-7 appears to have been paved over and may be lost or destroyed. PSG recommends that MW-7 be located and properly decommissioned. No other O&M requirements associated with the remedial program.

7.2 Performance and Effectiveness of the Remedy

The remedial strategy (including all ECs/ICs) continues to be an appropriate method of controlling exposure to remaining contamination in the subsurface.

Continuing performance of the remedy will be documented per the SMP.

7.3 Future PRR Submittals

The requirements for site closure have not been met, as contamination of subsurface soil and groundwater remains at the Site. At this time, the frequency of PRRs will remain unchanged (Annual). It is anticipated that the next PRR will be completed in April 2025.

8.0 CLOSING

This Periodic Review Report will be submitted, in hard-copy format, to the NYSDEC Central Office and Regional Office in which the site is located (Region 7 – Syracuse), and in electronic format to the NYSDEC Central Office, Regional Office and the NYSDOH Bureau of Environmental Exposure Investigation.

If you should have any questions regarding the information presented in this report, please feel free to contact our office (914) 222-8011 at your convenience.

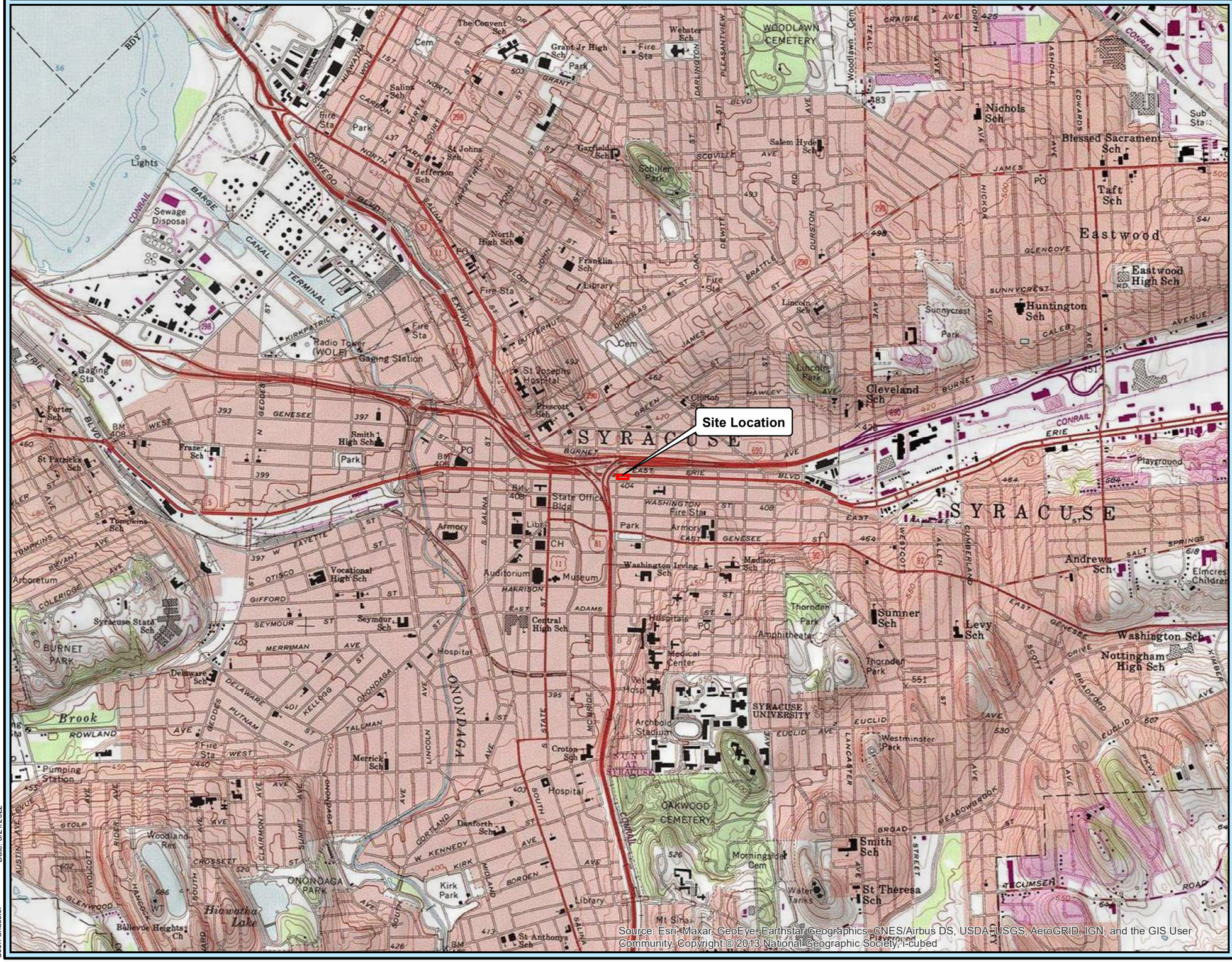
Sincerely,
PSG Engineering and Geology, D.P.C.

David R. Lent, P.G.
Technical Director – Environmental Solutions Group

FIGURES

Site Location Map

Syracuse, Onondaga County, New York



AMERCO REAL ESTATE COMPANY

700 OUTPARCEL
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE 1
SITE LOCATION MAP

Legend

Site Boundary

Coord. System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

0 1,000 2,000 4,000
Feet

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Sources:
Google Earth Imagery

SCALE
1 in = 2,000 ft

Job No: 21-340263
File Name: Fig 1 Site Location Map

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DATE
03/21/2022

File: \\pac\localroot\Solutions\Env Solutions_Projects and Proposals Folders\21-340263 701-709 Water Street East Syracuse NY\Figures\GIS\Figure 1 Site Location Map.mxd
User: ahassler
Date: 3/21/2022

Site Map

Syracuse, Onondaga County, New York

AMERCO REAL ESTATE COMPANY

700 OUTPARCEL
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE 2
SITE MAP

Legend

- Site Boundary
- Monitoring Well (Decommissioned)
- Monitoring Well

Coord. System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

0 10 20 40
Feet

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Sources:
Google Earth Imagery

SCALE
1 in = 20 ft

Job No: 21-340263
File Name: Fig 2 Site Map

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ALH

DATE
02/27/2024

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Date: 2/27/2024
User: ahassler

Groundwater Contour Map

Syracuse, Onondaga County, New York

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700 OUTPARCEL
701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE 3
GROUNDWATER CONTOUR MAP
FEBRUARY 15, 2024

Legend

- Site Boundary
- Monitoring Well (Decommissioned)
- Monitoring Well
- GW Contour - February 15, 2024

Note: MW-7 was damaged/lost and could not be guaged and is not included in this contour.

Coord. System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

0 10 20 40
Feet

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Sources:
Google Earth Imagery

SCALE
1 in = 20 ft

Job No: 21-340263
File Name: Fig 3 GW Contour Map 2023

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DATE
02/26/2024

TABLE 1

Table 1
Historical Groundwater Sampling Results

SAMPLE ID:			MW-8	MW-9	MW-8		MW-9		MW-8		MW-9	
LAB ID:			JD41420-1	JD41420-2	L2306704-01		L2306704-02		L2408684-01		L2408684-02	
COLLECTION DATE:			3/15/2022	3/15/2022	2/7/2023		2/7/2023		2/15/2024		2/15/2024	
SAMPLE MATRIX:			GROUNDWATER	GROUNDWATER	GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
ANALYTE	CAS	NY-AWQS (ug/l)	Conc	Conc	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
VOLATILE ORGANICS BY GC/MS												
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,1,1-Trichloroethane	71-55-6	5	ND (0.54)	ND (0.54)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,1,2,2-Tetrachloroethane	79-34-5	5	ND (0.65)	ND (0.65)	ND	0.33	ND	0.17	ND	0.17	ND	0.17
1,1,2-Trichloroethane	79-00-5	1	ND (0.53)	ND (0.53)	ND	1	ND	0.5	ND	0.5	ND	0.5
1,1-Dichloroethane	75-34-3	5	ND (0.57)	ND (0.57)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,1-Dichloroethene	75-35-4	5	ND (0.59)	ND (0.59)	ND	0.34	ND	0.17	ND	0.17	ND	0.17
1,1-Dichloropropene	563-58-6	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2,3-Trichlorobenzene	87-61-6	5	ND (0.50)	ND (0.50)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2,4,5-Tetramethylbenzene	95-93-2	5	NA	NA	**24**	1.1	1.4 J	0.54	**18**	0.54	0.91 J	0.54
1,2,4-Trichlorobenzene	120-82-1	5	ND (0.50)	ND (0.50)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2,4-Trimethylbenzene	95-63-6	5	NA	NA	**190**	1.4	ND	0.7	**51**	0.7	ND	0.7
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND (0.53)	ND (0.53)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2-Dibromoethane	106-93-4	0.0006	ND (0.48)	ND (0.48)	ND	1.3	ND	0.65	ND	0.65	ND	0.65
1,2-Dichlorobenzene	95-50-1	3	ND (0.53)	ND (0.53)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2-Dichloroethane	107-06-2	0.6	ND (0.60)	ND (0.60)	ND	0.26	ND	0.13	ND	0.13	ND	0.13
1,2-Dichloroethene, Total	540-59-0	--	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,2-Dichloropropane	78-87-5	1	ND (0.51)	ND (0.51)	ND	0.27	ND	0.14	ND	0.14	ND	0.14
1,3,5-Trimethylbenzene	108-67-8	5	NA	NA	**16**	1.4	ND	0.7	1 J	0.7	ND	0.7
1,3-Dichlorobenzene	541-73-1	3	ND (0.54)	ND (0.54)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,3-Dichloropropane	142-28-9	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,3-Dichloropropene, Total	542-75-6	--	NA	NA	ND	0.29	ND	0.14	ND	0.14	ND	0.14
1,4-Dichlorobenzene	106-46-7	3	ND (0.51)	ND (0.51)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
1,4-Dioxane	123-91-1	--	NA	NA	ND	120	ND	61	ND	61	ND	61
2,2-Dichloropropane	594-20-7	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
2-Butanone	78-93-3	50	43	ND (6.9)	ND	3.9	ND	1.9	ND	1.9	ND	1.9
2-Hexanone	591-78-6	50	3.3 J	ND (2.0)	ND	2	ND	1	ND	1	ND	1
4-Methyl-2-pentanone	108-10-1	--	2.4 J	ND (1.9)	ND	2	ND	1	ND	1	ND	1
Acetone	67-64-1	50	74.2	ND (3.1)	ND	2.9	ND	1.5	24	1.5	ND	1.5
Acrylonitrile	107-13-1	5	NA	NA	ND	3	ND	1.5	ND	1.5	ND	1.5
Benzene	71-43-2	1	1	ND (0.43)	**6.8**	0.32	ND	0.16	**1.2**	0.16	ND	0.16
Bromobenzene	108-86-1	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Bromochloromethane	74-97-5	5	ND (0.48)	ND (0.48)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Bromodichloromethane	75-27-4	50	ND (0.45)	ND (0.45)	ND	0.38	ND	0.19	ND	0.19	ND	0.19
Bromoform	75-25-2	50	ND (0.63)	ND (0.63)	ND	1.3	ND	0.65	ND	0.65	ND	0.65
Bromomethane	74-83-9	5	ND (1.6)	ND (1.6)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Carbon disulfide	75-15-0	60	0.48 J	ND (0.46)	ND	2	ND	1	ND	1	ND	1
Carbon tetrachloride	56-23-5	5	ND (0.55)	ND (0.55)	ND	0.27	ND	0.13	ND	0.13	ND	0.13
Chlorobenzene	108-90-7	5	ND (0.56)	ND (0.56)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Chloroethane	75-00-3	5	ND (0.73)	ND (0.73)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Chloroform	67-66-3	7	ND (0.50)	ND (0.50)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Chloromethane	74-87-3	--	ND (0.76)	ND (0.76)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
cis-1,2-Dichloroethene	156-59-2	5	ND (0.51)	ND (0.51)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
cis-1,3-Dichloropropene	10061-01-5	0.4	ND (0.47)	ND (0.47)	ND	0.29	ND	0.14	ND	0.14	ND	0.14
Dibromochloromethane	124-48-1	50	ND (0.56)	ND (0.56)	ND	0.3	ND	0.15	ND	0.15	ND	0.15
Dibromomethane	74-95-3	5	NA	NA	ND	2	ND	1	ND	1	ND	1
Dichlorodifluoromethane	75-71-8	5	ND (0.56)	ND (0.56)	ND	2	ND	1	ND	1	ND	1
Ethyl ether	60-29-7	--	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Ethylbenzene	100-41-4	5	**116**	ND (0.60)	**170**	1.4	ND	0.7	**14**	0.7	ND	0.7
Hexachlorobutadiene	87-68-3	0.5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Isopropylbenzene	98-82-8	5	**19.9**	ND (0.65)	**12**	1.4	ND	0.7	1.9 J	0.7	ND	0.7
Methyl tert butyl ether	1634-04-4	10	ND (0.51)	ND (0.51)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Methylene chloride	75-09-2	5	ND (1.0)	ND (1.0)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
n-Butylbenzene	104-51-8	5	NA	NA	4.6 J	1.4	ND	0.7	ND	0.7	ND	0.7
n-Propylbenzene	103-65-1	5	NA	NA	**29**	1.4	ND	0.7	2.8	0.7	ND	0.7
Naphthalene	91-20-3	10	NA	NA	**14**	1.4	ND	0.7	ND	0.7	ND	0.7
o-Chlorotoluene	95-49-8	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
o-Xylene	95-47-6	5	**25**	ND (0.59)	**44**	1.4	ND	0.7	**6.2**	0.7	ND	0.7
p-Chlorotoluene	106-43-4	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
p-Diethylbenzene	105-05-5	--	NA	NA	8.4	1.4	2.6	0.7	6.6	0.7	1.9 J	0.7
p-Ethyltoluene	622-96-8	--	NA	NA	76	1.4	ND	0.7	4.6	0.7	ND	0.7
p-Isopropyltoluene	99-87-6	5	NA	NA	3.4 J	1.4	ND	0.7	2.8	0.7	ND	0.7
p/m-Xylene	179601-23-1	5	**181**	ND (0.78)	**260**	1.4	ND	0.7	**5.3**	0.7	ND	0.7
sec-Butylbenzene	135-98-8	5	NA	NA	3.8 J	1.4	0.86 J	0.7	ND	0.7	ND	0.7
Styrene	100-42-5	5	ND (0.49)	ND (0.49)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
tert-Butylbenzene	98-06-6	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Tetrachloroethene	127-18-4	5	ND (0.90)	ND (0.90)	ND	0.36	ND	0.18	ND	0.18	ND	0.18
Toluene	108-88-3	5	3.7	ND (0.53)	**30**	1.4	ND	0.7	2.3 J	0.7	ND	0.7
trans-1,2-Dichloroethene	156-60-5	5	ND (0.54)	ND (0.54)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
trans-1,3-Dichloropropene	10061-02-6	0.4	ND (0.43)	ND (0.43)	ND	0.33	ND	0.16	ND	0.16	ND	0.16
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Trichloroethene	79-01-6	5	ND (0.53)	ND (0.53)	ND	0.35	ND	0.18	ND	0.18	ND	0.18
Trichlorofluoromethane	75-69-4	5	ND (0.40)	ND (0.40)	ND	1.4	ND	0.7	ND	0.7	ND	0.7
Vinyl acetate	108-05-4	--	NA	NA	ND	2	ND	1	ND	1	ND	1
Vinyl chloride	75-01-4	2	ND (0.79)	ND (0.79)	ND	0.14	ND	0.07	ND	0.07	ND	0.07
Xylenes, Total	1330-20-7	--	206	ND (0.59)	300	1.4	ND	0.7	12	0.7	ND	0.7
Total VOCs	N/A	--	723.5	0	892	-	4.86	-	141.7	-	2.81	-
TOTAL METALS												
Iron, Total	7439-89-6	300	**3,920**	**2,380**	**5,100**	19.1	**7,140**	19.1	**109,00**	19.1	**2,130**	19.1
Manganese, Total	7439-96-5	300	**1,320**	181	**555.6**	0.44	**345.7**	0.44	**1,101**	2.2	114.9	0.44

Notes:

NY-AWQS : New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
ND : Compound not detected above the laboratory method detection limit (MDL)
J : Estimated Value
ug/L : micrograms per liter
NA : Not Analyzed
18 Compound exceeds the NY TOGS Class GA Groundwater Quality Standards
ND MDL exceeds the NY TOGS Class GA Groundwater Quality Standards

APPENDIX A
SOIL MANAGEMENT PLAN

700 Outparcel

ONONDAGA COUNTY, NEW YORK

Site Management Plan

NYSDEC Site Number: C734111

Prepared for:
700 Out Parcel, LLC
505 East Fayette Street
Syracuse, New York 13210

Prepared by:
NEU-VELLE, LLC
Eastman Business Park
1667 Lake Avenue
Building 59, Suite 101
Rochester, New York 14615

DECEMBER 2016

Revisions to Final Approved Site Management Plan:

Revision #	Submitted Date	Summary of Revision	DEC Approval Date
01	March 27, 2017	DOH comments: Section 1.2.2 – current use of Site; Figure 1 – add crushed stone and demarcation barrier; Page 6 – correct xylene standard	November 3, 2017
02	January 11, 2022	Reduce the number of wells subject to sampling and analysis to two and limit analyses to VOCs and select Metals	January 24, 2022

CERTIFICATION STATEMENT

I Albert G. Lyons, Jr. certify that I am currently a NYS registered professional engineer and that this Site Management Plan 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).

074710	January 11, 2022	
NYS Professional Engineer #	Date	Signature / Stamp

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1.0 INTRODUCTION AND DESCRIPTION OF REMEDIAL PROGRAM

1.1 INTRODUCTION

This document is required as an element of the remedial program at 700 Outparcel (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index#B7-0743-07-05, Site # C73411, which was executed on October 31, 2007.

1.1.1 General

700 Out Parcel, LLC entered into a BCA with the NYSDEC to remediate a 0.43 acre property located in the City of Syracuse, New York. This BCA required the Remedial Party, 700 Out Parcel, LLC, to investigate and remediate contaminated media at the site. A figure showing the site location and boundaries of this 0.43-acre "site" is provided in attached Figure 3. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement.

After completion of the remedial work described in the Remedial Action Work Plan, contamination remains in the subsurface at this site, which is hereafter referred to as "remaining contamination." This Site Management Plan (SMP) was prepared to manage remaining contamination at the site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State.

The original (2016) SMP and Revision #1 to the original SMP were prepared by Strategic Environmental, LLC and the Asbestos & Environmental Consulting Corporation, on behalf of 700 Out Parcel, LLC, in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided

by NYSDEC. The SMP addresses the means for implementing the Institutional Controls (ICs) and Engineering Controls (ECs) that are required by the Environmental Easement for the site.

2022 Update: This current revision (Revision #2) is associated with the reduction of the number of wells subject to sampling and analysis from four to two, limiting analyses to VOCs and select Metals, and updating contact information. NEU-VELLE, LLC used the prior version of the SMP (Revision #1) as a base document for this revision.

1.1.2 Purpose

Contamination remains in the subsurface after completion of the remedial action. Engineering Controls have been incorporated into the site remedy to control exposure to remaining contamination during the use of the site to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Onondaga County Clerk, will require compliance with this SMP and all ECs and ICs placed on the site. The ICs place restrictions on site use, and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. This SMP specifies the methods necessary to ensure compliance with all ECs and ICs required by the Environmental Easement for contamination that remains at the site. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

This SMP provides a detailed description of all procedures required to manage remaining contamination at the site after completion of the Remedial Action, including: (1) implementation and management of all Engineering and Institutional Controls; (2) media monitoring; (3) operation and maintenance of all containment systems; (4) performance of periodic inspections, certification of results, and submittal of Periodic Review Reports; and (5) defining criteria for termination of treatment system operations.

To address these needs, this SMP includes three plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; and (3) an Operation and Maintenance Plan for implementation of remedial containment systems.

This plan also includes a description of Periodic Review Reports for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA (Index #B7-0743-07-05; Site #C734111) for the site, and thereby subject to applicable penalties.

1.1.3 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. In accordance with the Environmental Easement for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.2 SITE BACKGROUND

1.2.1 Site Location and Description

The site is located in the City of Syracuse, County of Onondaga, New York and is identified as Section 30, Block 14 and Lots 1.0 and 2.0 on the Onondaga County Tax Map. The site is an approximately 0.43-acre area bounded by Erie Boulevard East to the north, East Water Street to the south, a commercial/warehousing property to the east, and Almond Street to the west (see attached Figure 3). The site lies within the shadows of the elevated interstate highway exchanges of Interstate Route 81 north-bound and Interstate 690 east-bound. The boundaries of the site are more fully described in Appendix B – Metes and Bounds.

1.2.2 Site History

From 1949 to 1964, the site operated as a gasoline filling station and included five gasoline underground storage tanks (USTs), one fuel-oil UST and one waste-oil UST. Thereafter, it has been used as a parking lot.

In 2002, Beardsley Design Associates (BDA) excavated an area of the Site where Sanborn Fire Insurance maps showed four underground storage tanks (USTs). The four tanks were identified, and BDA noted that soils on the sides of the tanks exhibited petroleum staining and odors. Upon discovery of the petroleum-impacted soils, the New York State Department of Environmental Conservation (NYSDEC) Spill Hotline was called, and spill ID Number 01-11549 (March 7, 2002) was assigned to the site.

In 2006, seven USTs were removed from the site which included the removal of: four 1,000-gallon gasoline USTs, two 550-gallon USTs (one fuel oil and one waste oil) and one 4,200-gallon gasoline UST. Approximately 1,800 tons of contaminated soil was staged on-site during the removal of the former USTs. The NYSDEC Spill Hotline was called, and spill ID Number 06-10014 (December 4, 2006) was assigned to the site. In May 2008, these soils were removed from the site and disposed at a regulated landfill.

Several investigations were conducted and corresponding reports prepared in regard to contamination and clean-up measures at the site before entering the Brownfield Cleanup Program.

Currently the site is a fenced parking lot with a gravel surface.

1.2.3 Geologic Conditions

The top 18 inches of the site consist of several layers of pavement and gravel. Underlying this layer the soil is urban fill material including brick rubble, coal-ash, stone, sand, some lumber and broken up pavement to a depth of approximately five to six feet. The urban fill layer is underlain by a layer of brownish sand with some fine gravel and silty-clays from 7 to 13 feet. Underlying this layer is a fine light brown sand, along with a dry very stiff compact silt-clay layer from 14 to18 feet. Groundwater is encountered at approximately 7 feet below grade, with a flow direction to the south-southeast.

A geologic section is shown in Figure 1, below; and a groundwater flow figure is shown in attached Figure 4.

Figure 1 – Geologic Section

Depth (feet bgs)	USCS Unit Designation	Lithologic Description of Soil
0.0-1.0	GP	Crusher run gravel on top of an orange fabric demarcation barrier
1.0-5.0	FILL (GM/GC)	Asphalt/Macadam (0.0-0.5 feet) then FILL; Medium Gray-Brown SILT; some Clay and f-c Gravel; little vf-c Sand (Slightly moist; brick, concrete, and glass fragments present)
5.0-7.0	PT/ML FILL	PEAT with Dark Gray to Black SILT; little vf-f Sand (Slightly moist; abundant wood, reeds, and organic matter); brick, concrete, and glass fragments present
7.0-11.0	ML	Light Gray-Brown SILT and vf-f SAND with think alternating lenses of pure vf-m Sand, Silt, and Clay (Moist; laminations and bedding present; abundant root casts and decayed root matter; localized Clay intervals exhibit moderate plasticity)
11.0-14.0	GP	Light Green-Brown m-c SAND and f GRAVEL; trace vf-f Sand (Very moist; Wet at approximately 10.5-11.0 feet; subangular to subrounded clasts)
14.0-15.5	ML	Light Brown vf-f SAND; some Silt and Clay (Wet; Sand, Silt, and Clay occurs in alternating thin beds and lenses)
15.5-19.0	GM	Red-Brown f-m GRAVEL and SILT; little Clay and vf-c Sand (Slightly moist to dry; very stiff and compact; difficult digging with excavator)

1.3 SUMMARY OF REMEDIAL INVESTIGATION FINDINGS

A Remedial Investigation (RI) was performed to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the following reports:

- October 2013 Remedial Investigation Report prepared by BDA for 700 Out Parcel, LLC; including details of prior UST closures, remedial excavation activities, and supplemental subsurface investigations at the Site.

Generally, the RI determined that the contaminant(s) of concern identified at this site are:

1,2,4-trimethylbenzene	benzene
1,3,5-trimethylbenzene	ethylbenzene
Isopropylbenzene	toluene
xylene (mixed)	n-propylbenzene
naphthalene	sec-butylbenzene
butylbenzene	benzo(a)pyrene
benzo(a)anthracene	benzo(b)fluoranthene
benzo[k]fluoranthene	chrysene
indeno(1,2,3-CD)pyrene	dibenz[a,h]anthracene
arsenic	barium
cyanide	

The contaminant(s) of concern exceed the applicable NYSDEC Soil Cleanup Guidance Values (SCGs) and groundwater guidance values / standards.

Below is a summary of site conditions when the RI was performed in 2013:

Soil

Soil samples were obtained from soil borings/monitoring wells on-site and from some borings/wells located just off of the site boundaries to the north and south from approximately 8 to 12 feet below grade surface (bgs) and from test pits located on-site or within the fence line at 2 to 13 feet bgs. Surface soil samples (0 to 2 inches) were not collected because the site surface consists largely of pavement, broken-up pavement and gravel back-fill material.

Three volatile organic compounds (VOCs) were found at concentrations above the unrestricted use Soil Cleanup Objectives (SCOs). Specifically, 1,2,4-trimethylbenzene at one location approximately 8 to 12 feet bgs at 12 ppm compared to the unrestricted SCO of 3.6 ppm; acetone at five locations at depths ranging from 2 to 12 feet bgs at concentrations ranging from 0.055 to 0.330 ppm compared to the unrestricted SCO of 0.05 ppm; and xylene at six locations at depths ranging from 2 to 14 feet bgs with concentrations ranging from 0.260 to 0.540 ppm compared to the unrestricted SCO of 0.26 ppm. No VOCs were found at concentrations above commercial use SCOs.

Fourteen semi-volatile organic compounds (SVOCs) were found across the site at concentrations above the unrestricted use SCOs, mostly from depths ranging from 4 to 13 feet bgs. These SVOCs are acenaphthene, dibenz(a,h)anthracene, benzo(a)anthracene, fluoranthene, benzo(b)fluoranthene, fluorene, benzo(k)fluoranthene, indeno(1,2,3 cd)pyrene, benzo(a)pyrene, naphthalene, benzo(g,h,i)perylene, phenanthrene, chrysene and pyrene. Seven of these SVOCs benzo(a)anthracene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, benzo(b)fluoranthene, indeno(1,2,3 cd)pyrene and benzo(k)fluoranthene exhibited concentrations above commercial use SCOs across the site. However, samples collected outside the outer edge of the site boundary did not exceed unrestricted SCOs for site related SVOCs.

Seven metals (arsenic, barium, copper, lead, mercury, nickel, and zinc) were found above unrestricted use SCOs across the site. Two of these metals (arsenic, 2 samples) and (barium,1 sample) were found at concentrations above commercial use SCOs with arsenic at 33 and 21 ppm compared to the commercial SCO of 16 ppm and barium at 660 ppm compared to the commercial use SCO of 400 ppm. Samples collected just outside the outer edge of the site boundary only slightly exceeded the unrestricted SCO for arsenic [13ppm] with a concentration of 14ppm in one sample at 8 to 12 feet bgs.

No polychlorinated biphenyls (PCBs) were detected.

See attached Figure 5.

Site-Related Groundwater

Groundwater samples were collected from eleven groundwater monitoring wells, nine of which were along or just outside the site boundaries. Sample results indicate that the groundwater is contaminated by VOCs in excess of applicable standards in two on-site wells (near historic source areas) and in two of the perimeter wells located to the west and south of the site. These VOCs are benzene up to 214 parts per billion (ppb) compared to the 1 ppb standard; ethyl benzene up to 404 ppb compared to the 5 ppb standard; isopropyl benzene up to 54 ppb compared to the 5 ppb standard; n-butyl benzene up to 11.6 ppb compared to the 5 ppb standard; n-propyl benzene up to 99.4 ppb compared to the 5 ppb standard; naphthalene up to 111 ppb compared to the 10 ppb standard; p-isopropyl toluene up to 7.54 ppb compared to the 5 ppb standard; sec-butyl benzene up to 8.0 ppb compared to the 5 ppb standard; xylene up to 689 ppb compared to the 5 ppb standard; 1,2,4-trimethylbenzene at 628 ppb compared to the 5 ppb standard; 1,3,5-trimethylbenzene at 176 ppb compared to the 1 ppb standard; and toluene up to 109 ppb compared to the 5 ppb standard.

One SVOC, naphthalene, was found in excess of the guidance value of 10 ppb in the two on-site wells in the site's interior, with concentrations up to 77 ppb detected. No SVOCs were found in excess of guidance values in the wells located along or just outside the site boundaries.

Metals, including antimony, arsenic, chromium, lead, and zinc, were found in some of the wells along or just outside the site boundaries at concentrations above applicable guidance groundwater standards. Arsenic was found up to 33 ppb compared to its standard of 25 ppb; chromium was found up to 95 ppb compared to its standard of 50 ppb; lead was found up to 64 ppb compared to its standard of 25 ppb; and zinc was found up to 240 ppb compared to its standard of 200 ppb. These metals are attributed to urban fill (e.g. ash), especially along the site's northern property line adjacent to Erie Boulevard which corresponds to the former Erie Canal that was abandoned and filled-in-place. Elevated metals may also be attributed to suspended solids in these samples which is supported by the lower concentrations of these metals in samples collected from permanent monitoring wells which are less prone to introduction of solids in the samples.

See attached Figure 6.

Site-Related Soil Vapor Intrusion

Soil vapor was not sampled and there are currently no buildings on-site. However based on the results of the soil boring and groundwater investigations there is a potential for on-site soil vapor intrusion into any buildings that may be constructed on-site.

The property across Water Street, which is directly south and hydraulically downgradient of the Site, is the Former Midtown Plaza ERP Site (redeveloped as the Syracuse University Center of Excellence (COE)). Although an assessment of site conditions did not find that a mitigation system was warranted, Syracuse University installed and maintains a soil vapor mitigation system.

Underground Storage Tanks

Seven USTs were removed from the western and central portions of the Site in 2006 (see attached Figure 5):

- Four 1,000-gallon gasoline USTs
- Two 550-gallon USTs (one fuel oil and one waste oil)
- One 4,200-gallon gasoline UST

1.4 SUMMARY OF REMEDIAL ACTIONS

The site was remediated in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan dated April 2008 and Remedial Action Work Plan dated August 2015.

The following is a summary of the Remedial Actions performed at the site:

1. Prior to entry in the BCA, seven USTs were removed from the Site in 2006 (see Attached Figure 5). Approximately 1,800 tons of contaminated soil was staged on-site during the removal of the former USTs. In 2007, the project was accepted into the BCP and the staged soils associated with the UST removals were removed from the site and disposed at a regulated landfill as an Interim Remedial Measure;

2. Construction and maintenance of a cover system consisting of a one-foot layer of crusher run gravel on top of an orange fabric demarcation barrier to prevent human exposure to remaining contaminated soil/fill remaining at the site;

3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.

4. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance, and (4) reporting;

Remedial activities were completed at the site in November 2016.

1.4.1 Removal of Contaminated Materials from the Site

No contaminated materials were removed from the Site.

1.4.2 Site-Related Treatment Systems

No long-term treatment systems were installed as part of the site remedy.

1.4.3 Remaining Contamination

Since no contaminated soil was removed during site development (see Section 1.4.1), the contamination described in Section 1.3 will generally remain beneath the gravel cover. The orange demarcation barrier that segregates the cover material from the underlying contaminated soil is found at a minimum of one foot below surface grade.

Table 1 (below) summarizes the results of all soil samples exhibiting concentrations of metals that remain at the site after the completion of the Remedial Actions that exceed the Track 1 (unrestricted) SCOs and the Track 4 (restricted) Commercial Use RSCOs. Summary tables for VOCs and SVOCs are embedded within attached Figure 5.

Table 1 – Summary of Remaining Metals Contamination in Soils

Metal	Commercial RSCO	Unresticted SCO	TP-1 (9-10)	TP-1 FD (9-10)	TP-3 (8-10)	TP-5 (2-4)	TP-6 (4-5)	TP-9 (2-4)	TP-10 (2-4)	TP-11 (6-8)	TP-12 (11-13)	TP-14 (2-3)	TP-15 (11-13)	MW-2 (8-12)
Arsenic	16	13	-	-	-	-	**38**	**21**	-	-	-	-	-	14
Barium	400	350	-	-	-	-	-	**660**	-	-	-	-	-	-
Copper	270	50	-	-	-	160	120	98	190	-	52	59	-	-
Lead	1,000	63	91 J	81 J	-	300 J	950 J	260 J	710 J	-	200 J	140 J	-	-
Mercury	2.8	0.18	-	0.2	-	0.57	0.7	0.48	1.4	-	-	0.22	0.26	-
Nickel	310	30	-	-	-	-	-	-	-	31	-	-	-	-
Zinc	10,000	109	-	-	110	200	620	180	180	-	270	-	-	-

Notes:
All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)
SCO/RSCO - Unrestricted/Restricted Soil Cleanup Objective per 6 NYCRR 375
J - Estimated concentration below the limits of quantitation
Bold - Compound concentration exceeds Commercial Use RSCO
"-" - Compound not detected or detected below Unrestricted SCO

The extents of soils remaining at the Site that exhibit concentrations of metals, VOCs, and SVOCs that exceed the applicable SCOs and RSCOs are shown on attached Figures 7, 8, and 9.

The extent of groundwater at the Site that exhibits concentrations of metals, VOCs, and SVOCs that exceed the applicable groundwater standards is shown on attached Figure 10.

2.0 ENGINEERING AND INSTITUTIONAL CONTROL PLAN

2.1 INTRODUCTION

2.1.1 General

Since remaining contaminated soil, groundwater, and soil vapor (assumed) exists beneath the site, Engineering Controls and Institutional Controls (EC/ICs) are required to protect human health and the environment. This Engineering and Institutional Control Plan describes the procedures for the implementation and management of all EC/ICs at the site. The EC/IC Plan is one component of the SMP and is subject to revision by NYSDEC.

2.1.2 Purpose

This plan provides:

- A description of all EC/ICs on the site;
- The basic implementation and intended role of each EC/IC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the features to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of the Excavation Work Plan for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site; and
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the site remedy, as determined by the NYSDEC.

2.2 ENGINEERING CONTROLS

2.2.1 Engineering Control Systems

Exposure to remaining contamination in soil/fill at the site is prevented by a gravel cover system placed over a demarcation layer (US Fabric 65HVO ORANGE Warning Barrier) across the entire site. This cover system is comprised of a minimum of 12 inches of clean crusher run gravel meeting the requirements of DER-10 Section 5.5. The Excavation Work Plan that appears

in Appendix A outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of this SMP.

2.2.2 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

2.2.2.1 Composite Cover System

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

2.2.2.2 Monitored Natural Attenuation

General

Groundwater monitoring activities to assess natural attenuation will be performed on a quarterly basis until the NYSDEC determines that residual groundwater concentrations in hydraulically-downgradient wells are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level (within an order-of-magnitude, and as compared to hydraulically-upgradient wells due to the potential for contaminants to migrate onto the subject site from adjacent properties) within two years following remedy construction. At that point, monitoring will continue on an annual basis for an additional three years or until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC (and as compared to hydraulically-upgradient wells) a provision for treating the groundwater will be evaluated. Selection of the specific remedial technology will consider the monitoring data, but it is currently anticipated that injection of oxygen releasing compounds (ORC) would be used.

2022 Update: (for details associated with prior monitoring results, refer to the project's annual Periodic Review Reports (under separate cover): BTEX and other gasoline-related VOCs have been consistently detected in samples collected from monitoring wells MW-8 and MW-9. The following tables and graphs depict the trend in total VOCs and BTEX concentration

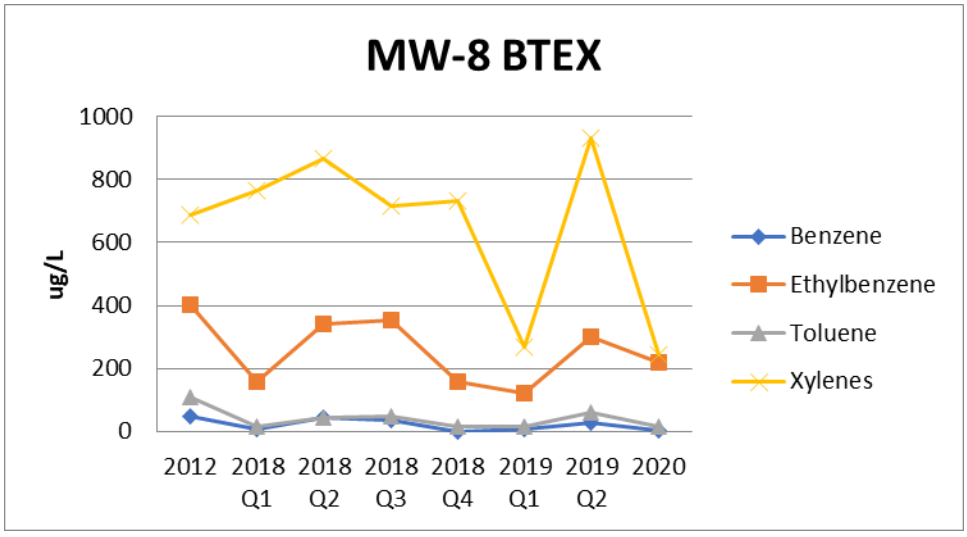
over the course of the 2012, 2018, 2019, and 2020 sampling events. Such tables and graphs are not appropriate for MW-5 and MW-7 as significant VOC contamination has not been discovered at those monitoring well locations.

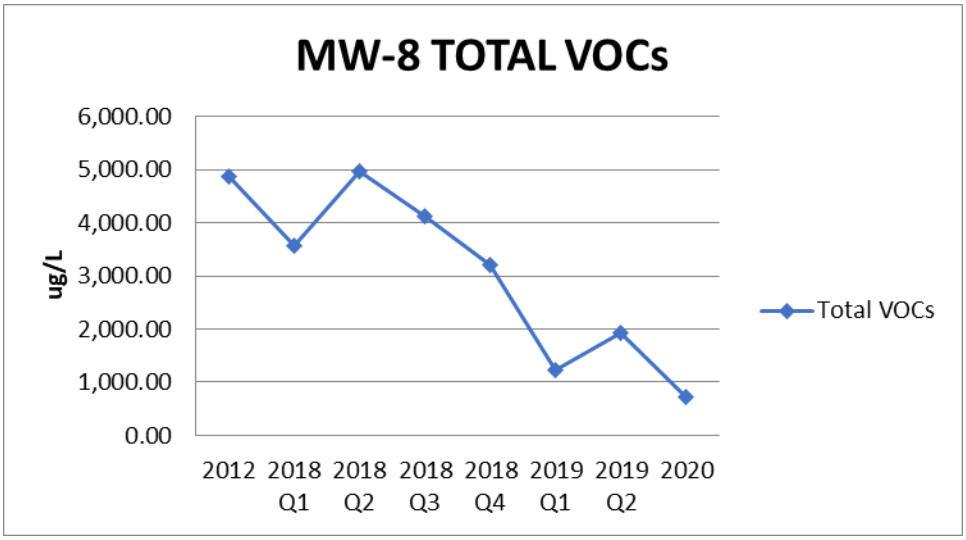
Monitoring Well MW-8

As shown on the following table and charts, the average individual BTEX and total VOC concentrations detected at MW-8 decreased compared to the 2019 sampling events; and have declined significantly since 2012.

Compound	2012	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2020
Benzene	49.4	5.7	44.1	34.2	BRL	7	29	5.2
Ethylbenzene	404	157	342	352	160	120	300	220
Toluene	109	15.6	42.9	49.4	15	15	62	16
Xylenes	689	763	865	714	730	266	930	242
Total VOCs	4,862	3,559	4,976	4,118	3,201	1,222	1,924	844

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)
BRL = Below Reporting Limit



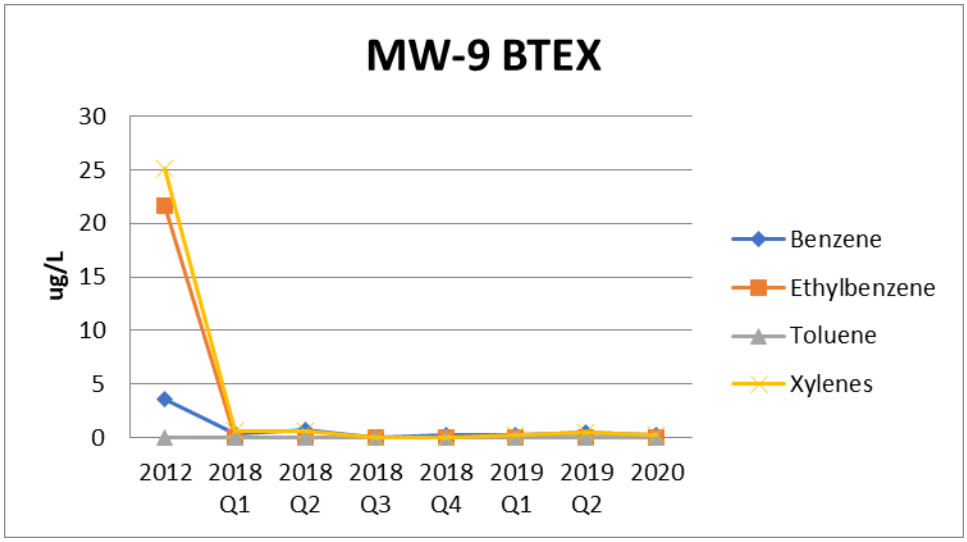


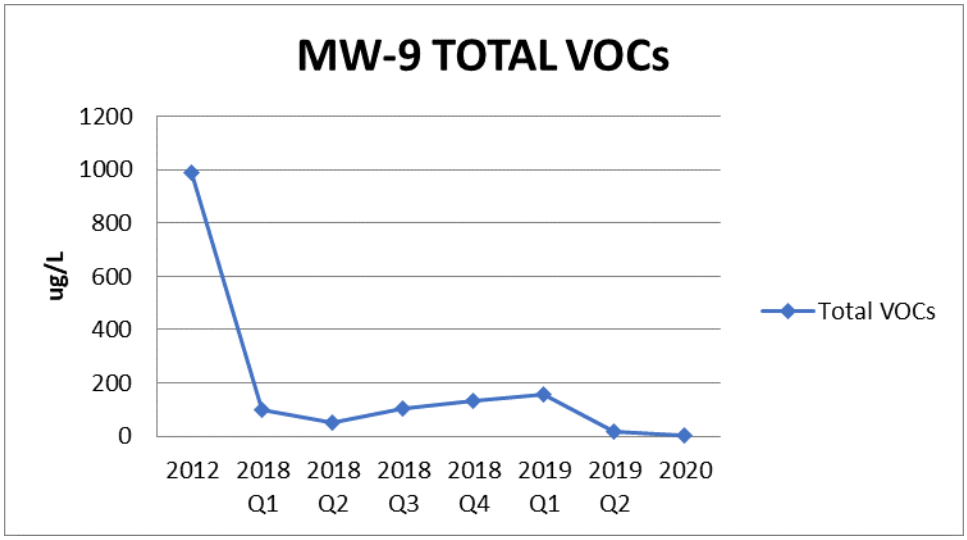
Monitoring Well MW-9

As shown on the following table and charts, the average individual BTEX and total VOC concentrations at MW-9 decreased slightly compared to the 2019 monitoring event, and have declined by 1 to 2 orders of magnitude since 2012. All VOC concentrations identified since the March 2018 sampling event have been less than their applicable groundwater standards.

Compound	2012	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2020
Benzene	3.62	0.33	0.79	BRL	0.3	0.3	0.5	0.24
Ethylbenzene	21.7	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Toluene	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Xylenes	25.1	0.62	0.6	BRL	BRL	0.27	0.46	0.20
Total VOCs	988	101	51	105	132	156	16	3.3

All concentrations are in micrograms per liter (ug/L) or approximate parts per billion (ppb)
BRL = Below Reporting Limit





Conclusions:

With the exception of bis(2-ethylhexyl)phthalate at MW-7 in 2019, no petroleum VOCs or SVOCs have been detected in MW-5 or MW-7 since September 2018.

Although BTEX concentrations remain stable to slightly decreasing, total VOC concentrations continue to decrease at monitoring well MW-8. It is likely that trends in BTEX concentrations at MW-8 will verify that MNA remains a viable method of remediating the Site.

As seen in the comparison of analytical data from this 2020 monitoring period to the previous data (2012, 2018, and 2019), natural attenuation has resulted in a significant reduction of contamination in the area of MW-9. Detected concentrations of VOCs and SVOCs at MW-9 have been below applicable groundwater standards and guidance values since 2018.

2.3 INSTITUTIONAL CONTROLS

A series of Institutional Controls is required by the Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only. Adherence to these Institutional Controls on the site is required by the Environmental Easement and will be implemented under this Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP; and
- 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 property owner to assure compliance with the restrictions identified in the Environmental Easement.

Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of Institutional Controls in the form of site restrictions. Adherence to these Institutional Controls is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for commercial or industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted, residential, or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- The use of the groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Onondaga 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;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2.3.1 Excavation Work Plan

The site has been remediated for restricted commercial use. Any future intrusive work that will penetrate the gravel cover, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix A to this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the site. A sample HASP is attached as Appendix D to this SMP that is in current compliance with DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. A sample CAMP prepared in accordance with Appendix 1A of DER-10, Generic Community Air Monitoring Plan is presented as Appendix E. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted with the notification provided in Section A-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan (See Section 5).

The site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The site owner will ensure that site development activities will not interfere with, or otherwise impair or compromise, the engineering controls described in this SMP.

2.3.2 Soil Vapor Intrusion Evaluation

If future development of the Site included construction of an occupied building, a soil vapor intrusion (SVI) mitigation system will be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

Prior to installing a mitigation system, a work plan will be developed and submitted to the NYSDEC and NYSDOH for approval. This work plan will be developed in accordance with the most recent NYSDOH "Guidance for Evaluating Vapor Intrusion in the State of New York". Measures to be employed to mitigate potential vapor intrusion will be evaluated, selected, designed, installed, and maintained based on the NYSDOH guidance, and construction details of the proposed structure.

SVI follow-up actions will also be added to the Periodic Review Report.

2.4 INSPECTIONS AND NOTIFICATIONS

2.4.1 Inspections

Inspections of all remedial components installed at the site will be conducted at the frequency specified in the SMP Monitoring Plan schedule. A comprehensive site-wide inspection will be conducted annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether Engineering Controls continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

Inspections will be conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP (Section 3). The reporting requirements are outlined in the Periodic Review Reporting section of this plan (Section 5).

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the EC/ICs implemented at the site by a qualified environmental professional as determined by NYSDEC.

2.4.2 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Brownfield Cleanup Agreement (BCA), 6NYCRR Part 375, and/or Environmental Conservation Law.
- 7-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the Engineering Control that reduces or has the potential to reduce the effectiveness of an Engineering Control and likewise any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of Engineering Controls in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser has been provided with a copy of the BCA, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing.

2.5 CONTINGENCY PLAN

Emergencies may include injury to personnel, fire or explosion, environmental release, or serious weather conditions.

2.5.1 Emergency Telephone Numbers

In the event of any environmentally related situation or unplanned occurrence requiring assistance, the Owner or Owner's representative(s) should contact the appropriate party from the contact list below. For emergencies, appropriate emergency response personnel should be contacted. Prompt contact should also be made to NEU-VELLE, LLC. These emergency contact lists must be maintained in an easily accessible location at the site.

Table 2: Emergency Contact Numbers

Medical, Fire, and Police:	911
Dig Safely New York:	(800) 272-4480 (3 day notice required for utility markout)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362

~~**Table 3: Other Contact Numbers**~~

~~Strategic Environmental~~	~~(315) 635-8936~~
~~AECC~~	~~(315) 432-9400~~
~~700 Out Parcel, LLC (Owner)~~	~~(315) 471-7400~~

2022 Update:

Table 3 - Revised: Other Contact Numbers

Team Member	***Organization***	***Telephone***	***Role/Title***
Brian St. Laurent	*700 Out Parcel, LLC*	*315-471-7400*	*Owner Contact*
Christopher Mannes	*NYSDEC*	*315-426-7515*	*NYSDEC Contact*
Stephen Lawrence	*NYSDOH*	*315-477-8148*	*NYSDOH Contact*

Richard McKenna	*NEU-VELLE, LLC*	*315-345-1649*	*Project Manager*
Al Lyons, P.E.	*NEU-VELLE, LLC*	*585-313-9683*	*Engineer-of-Record and QAPP Officer*
Mary Ellen Holvey	*NEU-VELLE, LLC*	*585-690-3361*	*Health & Safety Officer*

* Note: Contact numbers subject to change and should be updated as necessary

2.5.2 Map and Directions to Nearest Health Facility

Site Location: 701 East Water Street, Syracuse, NY

Nearest Hospital Name: SUNY Upstate (Upstate Medical University)

Hospital Location: 750 East Adams Street, Syracuse, NY

Hospital Telephone: (315) 464-5540

Directions to the Hospital:

1. Left (south) onto Almond Street
2. Veer right as roadway splits into a divided highway
3. Pass straight through E Genesee and Harrison Street intersections
4. Left onto East Adams Street
5. Destination on right in 0.2 miles

Total Distance: 0.7 miles

Total Estimated Time: 4 minutes

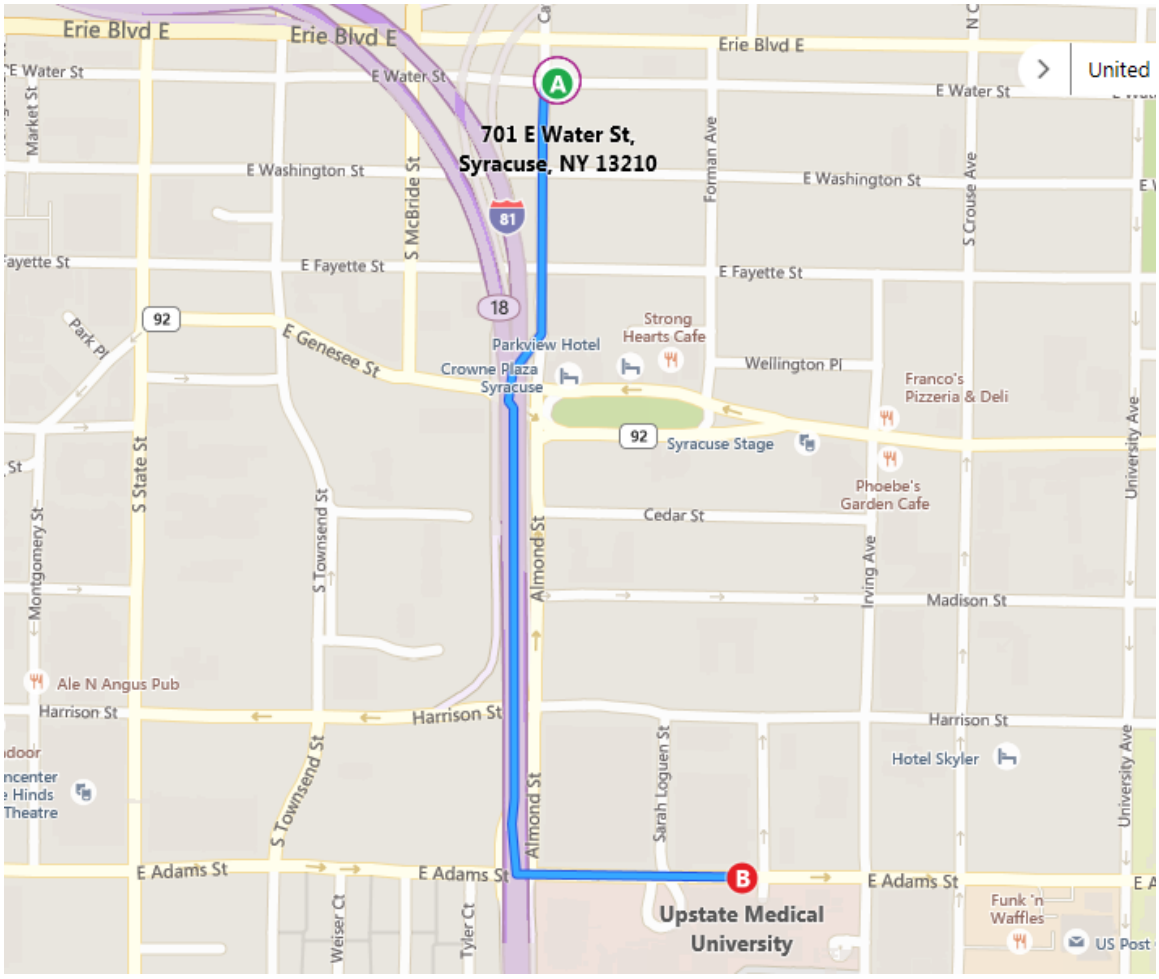


Figure 2: Map of Route from Site to Hospital

2.5.3 Response Procedures

As appropriate, the fire department and other emergency response group will be notified immediately by telephone of the emergency. The emergency telephone number list is found at Table 2. The list will also be posted prominently at the site and made readily available to all personnel at all times.

If future development occurs at the Site, a site-specific response plan, describing procedures for spills and evacuation plans, will be developed based on the anticipated work to be performed.

3.0 SITE MONITORING PLAN

3.1 INTRODUCTION

3.1.1 General

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan. This Monitoring Plan may only be revised with the approval of NYSDEC.

3.1.2 Purpose and Schedule

This Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria;
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, this Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Quarterly monitoring of the performance of the remedy and overall reduction in contamination on-site and at the site boundaries will be conducted for the first two years. The frequency thereafter will be determined by NYSDEC, but it is anticipated that the monitoring frequency after two years will be on an annual basis. Trends in contaminant levels in soil and/or groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 4 and outlined in detail in Sections 3.2 and 3.3 below.

~~**Table 4: Monitoring/Inspection Schedule**~~

~~**Monitoring Program**~~	~~**Frequency***~~	~~**Matrix**~~	~~**Analysis**~~
~~Groundwater Sampling~~	~~Quarterly for two years~~	~~Groundwater~~	~~VOCs/SVOCs/TAL Metals~~
~~Groundwater Sampling~~	~~Annual for three years following the initial two years~~	~~Groundwater~~	~~VOCs/SVOCs/TAL Metals~~
~~Cover System Visual Inspection~~	~~Annual~~	~~N/A~~	~~N/A~~

~~* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH~~

2022 Update: Annual monitoring of the performance of the remedy and overall reduction in contamination on-site and at the site boundaries will be conducted for the next two years. The frequency thereafter will be determined by NYSDEC, but it is anticipated that the monitoring frequency after two years, if necessary, will be on an annual basis. Trends in contaminant levels in soil and/or groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals. Monitoring programs are summarized in Table 4 and outlined in detail in Sections 3.2 and 3.3 below.

Table 4 - Revised: Monitoring/Inspection Schedule

Monitoring Program	***Frequency****	***Matrix***	***Analysis***
Groundwater Sampling	*Annual for years*	*Groundwater*	*VOCs, Iron, Manganese*
Cover System Visual Inspection	*Annual*	*N/A*	*N/A*

** The frequency of events will be conducted as specified until otherwise approved by NYSDEC/NYSDOH*

3.2 COVER SYSTEM MONITORING

Visual inspections of the gravel cover at the site will be performed on an annual basis (see Section 3.4).

3.3 MEDIA MONITORING PROGRAM

3.3.1 Groundwater Monitoring

Groundwater contamination remaining after Site development will be addressed with monitored natural attenuation (MNA). Since utilities and access issues prevent wells from being installed in adjacent sidewalks, streets, or properties, it is proposed that four (4) of the existing monitoring wells will be sampled: MW-5 (upgradient at northern property border), MW-8 (downgradient nearest former tanks), MW-9 (downgradient, further from former tanks), and MW-7 (to monitor for potential vapor intrusion issues east of the site). See attached Figures 4 and 10 for a depiction of well locations.

If re-use of one or more wells is not feasible, (if broken, etc.), then, a new well of similar construction will be installed in the vicinity of the former well.

The 2" PVC monitoring wells have a 10-12 foot slotted screen that was placed at the bottom of each respective boring. In general, sand was packed from the bottom of the well to approximately one foot above the screen, grout was placed from the surface to approximately one foot below grade, and a bentonite seal was placed between the sand and the grout. The screened interval is placed in the conductive sand / gravel (GP/ML) layers, between the peat and clay zones that are expected to exhibit low conductivity (see Table 1 in Section 1.2.3). Monitoring well construction logs are included in Appendix F.

Groundwater will be sampled in accordance with the details presented in Table 5, below:

~~Table 5 – Groundwater Monitoring Schedule~~

~~Well~~	~~Screened Depth (feet bgs)~~	~~Parameters~~	~~Monitoring Frequency*~~
~~MW-5~~	~~6-18~~	~~VOCs SVOCs TAL Metals~~	~~Quarterly (years 1-2) Annually (years 3-5)~~
~~MW-7~~	~~10-20~~	~~VOCs SVOCs TAL Metals~~	~~Quarterly (years 1-2) Annually (years 3-5)~~
~~MW-8~~	~~8-18~~	~~VOCs SVOCs TAL Metals~~	~~Quarterly (years 1-2) Annually (years 3-5)~~

~~MW-9~~	~~5.8-15.8~~	~~VOCs SVOCs TAL Metals~~	~~Quarterly (years 1-2) Annually (years 3-5)~~

~~* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH~~

The sampling frequency may be modified with the approval NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Deliverables for the groundwater monitoring program are specified below.

2022 Update: Since no significant VOC contamination has been identified at monitoring wells MW-5 and MW-7, it is proposed that the groundwater monitoring program be reduced to two monitoring wells: MW-8 (downgradient nearest former tanks) and MW-9 (downgradient, further from former tanks). Furthermore, since SVOCs have only been sporadically detected since 2012, and metals concentrations have remained relatively stable and are likely associated with the historic fill at the Site, it is proposed that the two wells be sampled only for VOCs, iron, and manganese (since iron and manganese are biodegradation markers). For details associated with prior monitoring results, refer to the project's annual Periodic Review Reports (under separate cover. Field parameters will continue to be measured at MW-5, MW-7, MW-8, and MW-9, and depth-to-groundwater measurements will continue to be collected from all site wells.

Table 5 – Revised: Groundwater Monitoring Schedule

Well	***Screened Depth (feet bgs)***	***Parameters***	***Monitoring Frequency****
MW-5	*6-18*	*Field Parameters*	*Annually*
MW-7	*10-20*	*Field Parameters*	*Annually*
MW-8	*8-18*	*Field Parameters VOCs Iron and Manganese*	*Annually*
MW-9	*5.8-15.8*	*Field Parameters VOCs Iron and Manganese*	*Annually*

** The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH*

3.3.1.1 Sampling Protocol

All monitoring well sampling activities will be conducted in accordance with the protocols detailed in the Field Sampling Plan presented as Appendix G. The monitoring activities and results will be recorded in a field book (a sample groundwater sampling log is presented as Appendix G). Other observations (e.g., well integrity, etc.) will be noted on the well sampling log. The well sampling log will serve as the inspection form for the groundwater monitoring well network.

3.3.1.2 Monitoring Well Repairs, Replacement and Decommissioning

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced (as per the Monitoring Plan), if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of monitoring wells for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent periodic report. Well decommissioning without replacement will be done only with the prior approval of NYSDEC. Well abandonment will be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be reinstalled in the nearest available location, unless otherwise approved by the NYSDEC.

3.4 SITE-WIDE INSPECTION

Site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed (Appendix J). The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that site records are up to date.

3.5 MONITORING QUALITY ASSURANCE/QUALITY CONTROL

All sampling and analyses will be performed in accordance with the requirements of the Quality Assurance Project Plan (QAPP) prepared for the site (Appendix I). Main Components of the QAPP include:

- QA/QC Objectives for Data Measurement;
- Sampling Program:
    - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
    - Sample holding times will be in accordance with the NYSDEC ASP requirements.
    - Field QC samples (e.g., trip blanks, coded field duplicates, and matrix spike/matrix spike duplicates) will be collected as necessary.
- Sample Tracking and Custody;
- Calibration Procedures:
    - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.
    - The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.
- Analytical Procedures;

- Preparation of a Data Usability Summary Report (DUSR), which will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.
- Internal QC and Checks;
- QA Performance and System Audits;
- Preventative Maintenance Procedures and Schedules; and
- Corrective Action Measures.

3.6 MONITORING REPORTING REQUIREMENTS

Forms and any other information generated during regular monitoring events and inspections will be kept on file at the 700 Out Parcel, LLC office. All forms, and other relevant reporting formats used during the monitoring/inspection events, will be (1) subject to approval by NYSDEC and (2) submitted at the time of the Periodic Review Report, as specified in the Reporting Plan of this SMP.

All monitoring results will be reported to NYSDEC on a periodic basis in the Periodic Review Report. A letter report will also be prepared subsequent to each sampling event. The letter will include, at a minimum:

- Date of event;
- Personnel conducting sampling;
- Description of the activities performed;
- Type of samples collected (e.g., groundwater);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);

- Any observations, conclusions, or recommendations; and
- A determination as to whether groundwater conditions have changed since the last reporting event.

Data will be reported in hard copy or digital format as determined by NYSDEC. A summary of the monitoring program deliverables are summarized in Table 6 below.

~~**Table 6: Schedule of Monitoring/Inspection Reports**~~

~~**Task**~~	~~**Reporting Frequency***~~
~~Groundwater Monitoring (Years 1-2)~~	~~Quarterly Letter Report~~ ~~Annual Summary Report~~
~~Groundwater Monitoring (Years 3-5)~~	~~Annual~~
~~Cover System Visual Inspection~~	~~Annual~~

~~* The frequency of events will be conducted as specified until otherwise approved by NYSDEC~~

2022 Update:

Table 6 - Revised: Schedule of Monitoring/Inspection Reports

Task	***Reporting Frequency****
Groundwater Monitoring)	*Annual for two years*
Cover System Visual Inspection	*Annual*

** The frequency of events will be conducted as specified until otherwise approved by NYSDEC*

4.0 OPERATION AND MAINTENANCE PLAN

Note: Information on non-mechanical Engineering Controls (i.e. soil cover system) is provided in Section 3 - Engineering and Institutional Control Plan

If future development includes construction of an occupied building, a sub-slab depressurization system will be installed to mitigate possible soil vapor intrusion into occupied buildings.

At that time, an Operation and Maintenance Plan that describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy would be prepared, and this SMP would be revised accordingly. The Operation and Maintenance Plan would:

- Include the steps necessary to allow individuals unfamiliar with the site to operate and maintain the sub-slab depressurization system;
- Include an operation and maintenance contingency plan; and,
- Would be updated periodically to reflect changes in site conditions or the manner in which the sub-slab depressurization system is operated and maintained.

5.0 INSPECTIONS, REPORTING AND CERTIFICATIONS

5.1 SITE INSPECTIONS

5.1.1 Inspection Frequency

All inspections will be conducted at the frequency specified in the schedules provided in Section 3 Monitoring Plan and Section 4 Operation and Maintenance Plan of this SMP. At a minimum, a site-wide inspection will be conducted annually. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an erosion or flooding event that may affect the ECs.

5.1.2 Inspection Forms, Sampling Data, and Maintenance Reports

A general site-wide inspection form will be completed during the site-wide inspection (see Appendix J). This form is subject to NYSDEC revision.

All applicable inspection forms and other records, including all media sampling data generated for the site during the reporting period will be provided in electronic format in the Periodic Review Report.

5.1.3 Evaluation of Records and Reporting

The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification to confirm that the:

- EC/ICs are in place, are performing properly, and remain effective;
- The Monitoring Plan is being implemented;
- Operation and maintenance activities are being conducted properly; and, based on the above items,
- The site remedy continues to be protective of public health and the environment and is performing as designed in the RAWP and FER.

5.2 CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

After the last inspection of the reporting period, a qualified environmental professional or Professional Engineer licensed to practice in New York State, depending on the need to evaluate the engineering systems, will prepare the following certification:

For each institutional or engineering control identified for the site, I certify that all of 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 Department;
- 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;
- Use of the site is compliant with the environmental easement;
- 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, [name], of [business address], am certifying as Owner's Designated Site Representative for the site.

The signed certification will be included in the Periodic Review Report described below.

- No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and

  Every five years the following certification will be added:

- The assumptions made in the qualitative exposure assessment remain valid.

  The signed certification will be included in the Periodic Review Report described below.

5.3 PERIODIC REVIEW REPORT

A Periodic Review Report will be submitted to the Department every year, beginning fifteen months after the Certificate of Completion or Satisfactory Completion Letter is issued. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix B (Metes and Bounds). The report will be prepared in accordance with NYSDEC DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the site during the reporting period in electronic format;
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media (groundwater etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;

- A site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the site-specific RAWP, ROD or Decision Document;
    - The operation and the effectiveness of all remedial measures, etc., including identification of any needed repairs or modifications;
    - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
    - The overall performance and effectiveness of the remedy.

The Periodic Review Report will be submitted, in hard-copy format, to the NYSDEC Central Office and Regional Office in which the site is located, and in electronic format to NYSDEC Central Office, Regional Office and the NYSDOH Bureau of Environmental Exposure Investigation.

5.4 CORRECTIVE MEASURES PLAN

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a corrective measures plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the corrective measures plan until it is approved by the NYSDEC.

APPENDIX A – EXCAVATION WORK PLAN

A-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Christopher Mannes, P.E.Professional Engineer I
NYSDEC Region 7
615 Erie Blvd. West
Syracuse, NY 13204-2400

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the gravel cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP,
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix D of this document,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

A-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

A-3 STOCKPILE METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

A-4 MATERIALS EXCAVATION AND LOAD OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

A-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

A-6 MATERIALS DISPOSAL OFF-SITE

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

A-7 MATERIALS REUSE ON-SITE

Chemical criteria for on-site reuse of material have been approved by NYSDEC and are listed as Commercial Use SCOs in the Table presented in 6NYCRR 375-6.8(b). The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site

will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

A-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

A-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Decision Document. The demarcation layer (US Fabric 65HVO ORANGE Warning Barrier or equivalent material) will be replaced to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this Site Management Plan. If the type of cover system changes from that which exists prior to the excavation (i.e., the gravel cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination Zone'. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

A-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are the Commercial Use RSCOs listed in the table presented in 6NYCRR375-6.8(b). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

A-11 STORMWATER POLLUTION PREVENTION

Since the construction will not exceed 1 acre in size, a Storm Water Pollution Prevention Plan (SWPPP) that conforms to the requirements of NYSDEC Division of Water guidelines and NYS regulations is not necessary. However, the following "Best Management Practices" will be observed when appropriate:

Barriers, silt fencing, or hay bales will be installed and inspected once a week and after every storm event. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

A-12 CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

A-13 COMMUNITY AIR MONITORING PLAN

Prior to commencing excavation activities, a Community Air Monitoring Plan will be prepared in accordance with Appendix 1A of DER-10, Generic Community Air Monitoring Plan (CAMP). At a minimum, the CAMP will include:

- Details of the perimeter air monitoring program;
- Action levels to be used;
- Methods for air monitoring ;
- Analytes measured and instrumentation to be used;
- A figure of the location(s) of all air monitoring instrumentation.

A sample CAMP is presented in Appendix E.

The prevailing wind generally blows from west to east. However, monitoring locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

A-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis will include covering odorous soils with polyethylene sheeting or similar tarp/cover. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils;. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

A-15 DUST CONTROL PLAN

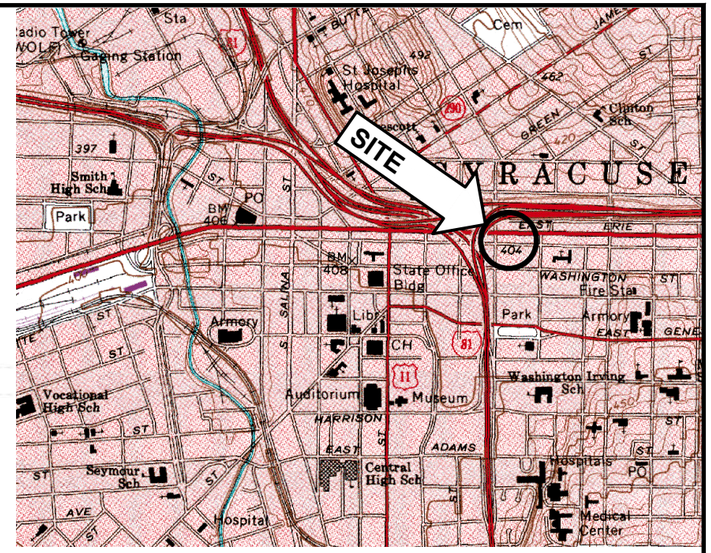
A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

A-16 OTHER NUISANCES

The contractor shall ensure compliance with local noise control ordinances.

FIGURES



NOTES:

1. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.
2. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.

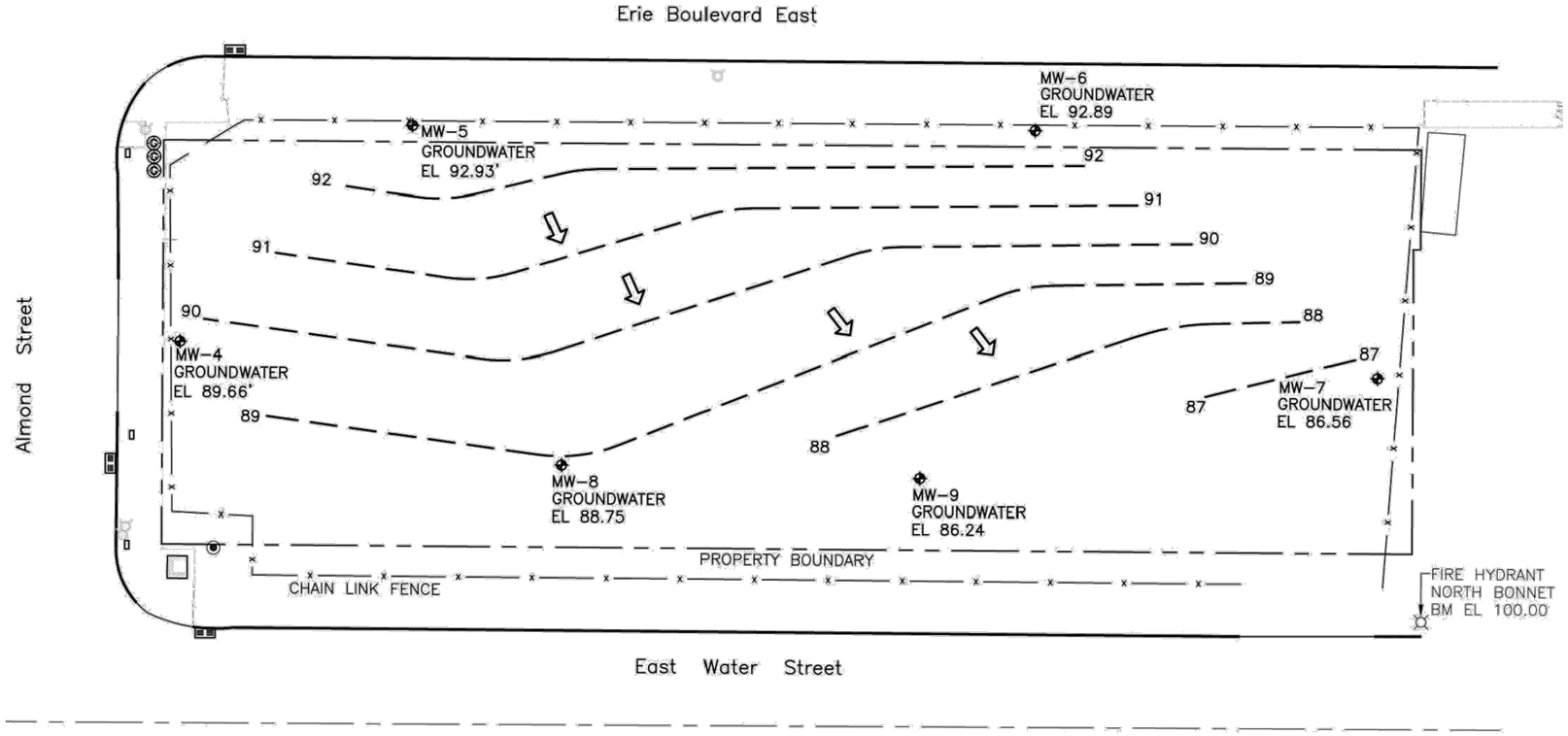
AECC
ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO.	13-029
DRAWN:	JULY 2016
DRAWN BY:	HS
CHECKED BY:	RM

SITE LOCATION AND BOUNDARIES

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
3



LEGEND:

- GROUNDWATER CONTOURS
- DIRECTION OF GROUNDWATER FLOW BASED ON JANUARY 19, 2012 WATER LEVEL READINGS
- MONITORING WELL

NOTES:

1. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.
2. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.

0 30' 60'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

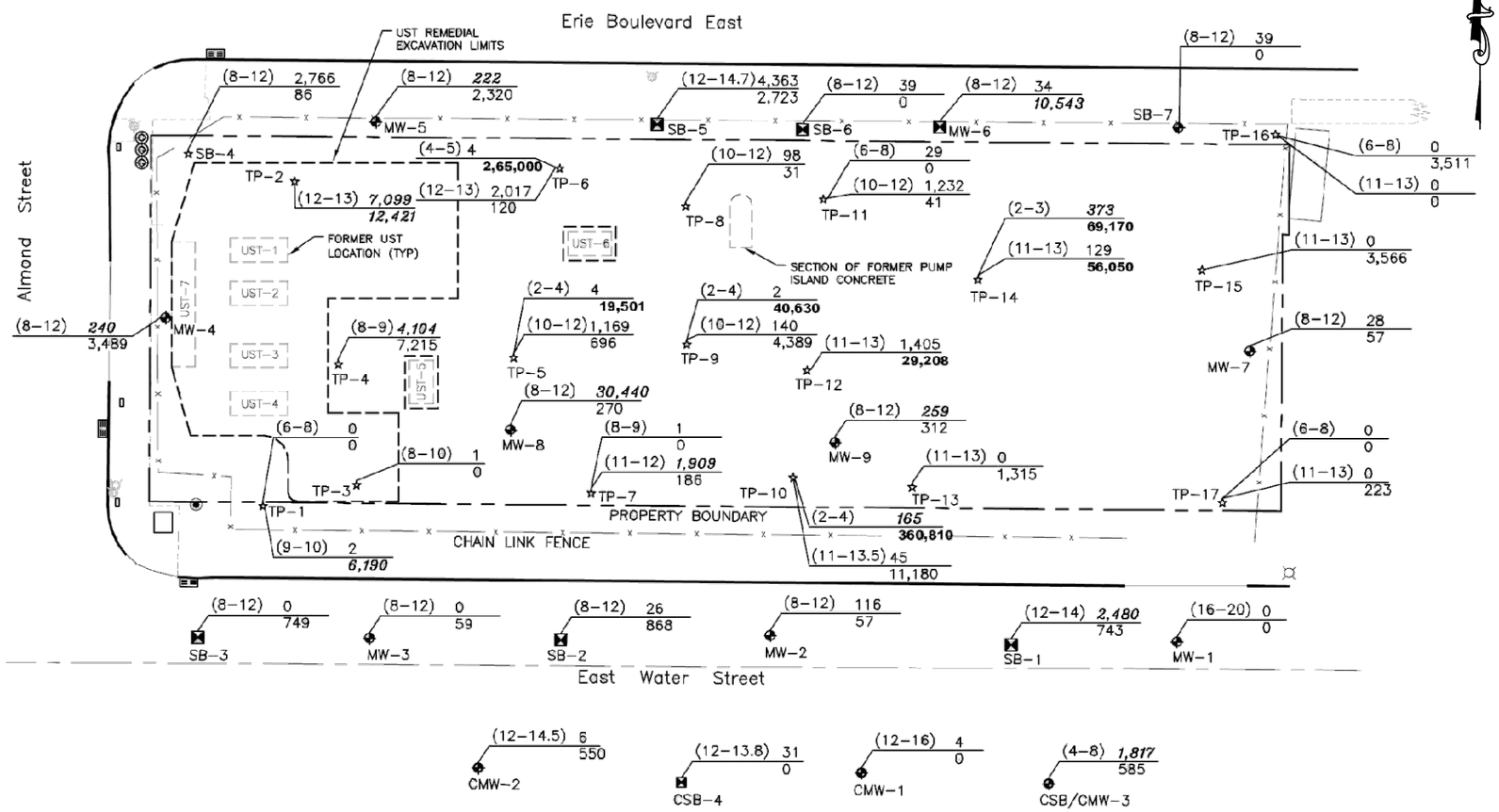
GROUNDWATER MONITORING WELL NETWORK AND FLOW

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
4

SOIL SAMPLE ANALYTICAL DATA SUMMARY OF ORGANIC COMPOUNDS DETECTED IN EXCESS OF CNYCRR 375-6 SOIL CLEANUP OBJECTIVES

Sample ID and Depth (ft)	PID Headspace Analysis (ppm)	Parameter	Unrestricted SCO (ug/kg)	Commercial SCO (ug/kg)	Detected Concentration (ug/kg)
TP-1 (9-10)	0.0	Benzo(k)fluoranthene	800	56,000	2,400
TP-1 (9-10) FD	0.0	Benzo(k)fluoranthene	800	56,000	2,600
TP-2 (12-13)	341	Xylene (total)	260	500,000	430
		Benzo(a)anthracene	1,000	5,600	1,000
TP-3 (8-10)	50.8	No Exceedances			
TP-4 (8-9)	2420	Xylene (total)	260	500,000	540
TP-4 (8-9) FD	2420	Xylene (total)	260	500,000	460
TP-5 (2-4)		Benzo(a)anthracene	1,000	5,600	1,600
		Benzo(a)pyrene	1,000	1,000	1,300
	0.0	Benzo(b)fluoranthene	1,000	5,600	1,700
		Chrysene	1,000	56,000	1,500
		Dibenz(a,h)anthracene	330	560	460
TP-5 (10-12)	1111	No Exceedances			
TP-6 (4-5)		Acenaphthene	20,000	500,000	30,000
		Benzo(a)anthracene	1,000	5,600	210,000
		Benzo(a)pyrene	1,000	1,000	180,000
		Benzo(b)fluoranthene	1,000	5,600	250,000
		Benzo(g,h,i)perylene	100,000	500,000	110,000
		Benzo(k)fluoranthene	800	56,000	76,000
	0.0	Chrysene	1,000	56,000	210,000
		Fluoranthene	100,000	500,000	430,000
		Fluorene	30,000	500,000	34,000
		Indeno(1,2,3-cd)pyrene	500	5,600	70,000
		Naphthalene	12,000	500,000	16,000
		Phenanthrene	100,000	500,000	430,000
		Pyrene	100,000	500,000	440,000
TP-6 (12-13)	2789	No Exceedances	–	–	–
TP-7 (8-9)	0.0	No Exceedances	–	–	–
TP-7 (11-12)	779	Xylene (total)	260	500,000	280
TP-8 (10-12)	185	No Exceedances	–	–	–
TP-9 (2-4)		Benzo(a)anthracene	1,000	5,600	2,900
		Benzo(a)pyrene	1,000	1,000	4,000
	0.0	Benzo(b)fluoranthene	1,000	5,600	5,200
		Benzo(k)fluoranthene	800	56,000	1,700
		Chrysene	1,000	56,000	2,900
		Indeno(1,2,3-cd)pyrene	500	5,600	1,500
TP-9 (10-12)	284	No Exceedances	–	–	–
TP-10 (2-4)		Acetone	50	500,000	160
		Benzo(a)anthracene	1,000	5,600	31,000
		Benzo(a)pyrene	1,000	1,000	26,000
	0.0	Benzo(b)fluoranthene	1,000	5,600	31,000
		Benzo(k)fluoranthene	800	56,000	12,000
		Chrysene	1,000	56,000	28,000
		Dibenz(a,h)anthracene	330	560	2,800
		Indeno(1,2,3-cd)pyrene	500	5,600	8,400
TP-10 (11-13.5)	248	No Exceedances	–	–	–
TP-11 (6-8)	27.8	No Exceedances	–	–	–
TP-11 (10-12)	805	No Exceedances	–	–	–
TP-12 (11-13)		Benzo(a)anthracene	1,000	5,600	2,400
		Benzo(a)pyrene	1,000	1,000	2,500
		Benzo(b)fluoranthene	1,000	5,600	3,100
	983	Benzo(k)fluoranthene	800	56,000	1,300
		Chrysene	1,000	56,000	2,200
		Dibenz(a,h)anthracene	330	560	800
		Indeno(1,2,3-cd)pyrene	500	5,600	740
TP-13 (11-13)	8.3	No Exceedances	–	–	–
TP-14 (2-3)		Acetone	50	500,000	330
		Benzo(a)anthracene	1,000	5,600	4,700
		Benzo(a)pyrene	1,000	1,000	5,600
	10.2	Benzo(b)fluoranthene	1,000	5,600	7,900
		Benzo(k)fluoranthene	800	56,000	1,800
		Chrysene	1,000	56,000	4,200
		Indeno(1,2,3-cd)pyrene	500	5,600	1,400
TP-14 (11-13)		Benzo(a)anthracene	1,000	5,600	3,700
		Benzo(a)pyrene	1,000	1,000	4,700
	107	Benzo(b)fluoranthene	1,000	5,600	6,700
		Benzo(k)fluoranthene	800	56,000	1,800
		Chrysene	1,000	56,000	3,400
		Indeno(1,2,3-cd)pyrene	500	5,600	1,300
TP-15 (11-13)	0.0	No Exceedances	–	–	–
TP-16 (6-8)	0.0	No Exceedances	–	–	–
TP-16 (11-13)	0.0	No Exceedances	–	–	–
TP-17 (6-8)	0.0	No Exceedances	–	–	–
TP-17 (11-13)	0.0	No Exceedances	–	–	–
MW-1 (16-20)	0.6	No Exceedances	–	–	–
SB-1 (12-14)	2444	Xylenes (total)	260	500,000	290
CMW-1 (12-16)	1798	No Exceedances	–	–	–
MW-2 (8-12)	1096	No Exceedances	–	–	–
SB-2 (8-12)	429	No Exceedances	–	–	–
CMW-2 (12-14.5)	0.1	No Exceedances	–	–	–
MW-3 (8-12)	58.1	No Exceedances	–	–	–
SB-3 (8-12)	59.4	No Exceedances	–	–	–
CSB/CMW-3 (4-8)	480	Xylenes (total)	260	500,000	420
CSB-4 (12-13.8)	0.0	No Exceedances	–	–	–
MW-4 (4-8)	1012	Acetone	50	500,000	120
SB-4 (8-12)	839	No Exceedances	–	–	–
MW-5 (8-12)	1360	No Exceedances	–	–	–
MW-5 (8-12) FD	1360	Acetone	50	500,000	55
SB-5 (12-14.7)	1300	No Exceedances	–	–	–
MW-6 (8-12)	12.5	Benzo(b)fluoranthene	1,000	5,600	5,600
SB-6 (8-12)	52.4	No Exceedances	–	–	–
MW-7 (8-12)	0.0	No Exceedances	–	–	–
SB-7 (8-12)	5.5	No Exceedances	–	–	–
MW-8 (8-12)	1298	1,2,4-Trimethylbenzene	3,600	190,000	12,000
		Xylene (total)	260	500,000	2,500
MW-9 (8-12)	1.4	Acetone	50	500,000	73



LEGEND:

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
☆ TP-# – TEST PIT LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
■ SB-# – SOIL BORING LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
◆ MW-# – MONITORING WELL LOCATION

NOTES:

1. *ITALICS FONT* INDICATES A PARAMETER(S) WAS DETECTED ABOVE UNRESTRICTED USE SOIL CLEANUP OBJECTIVES.
2. **BOLD FONT** INDICATES A PARAMETER(S) WAS DETECTED ABOVE COMMERCIAL USE SOIL CLEANUP OBJECTIVES.
3. TEST PIT, SOIL BORING, AND MONITORING WELL LOCATIONS ARE BASED ON OCTOBER 17, 2012 SURVEY CONDUCTED BY R.J. LIGHTON SR. - LAND SURVEYING.
4. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.
5. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.

0 30' 60'
GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

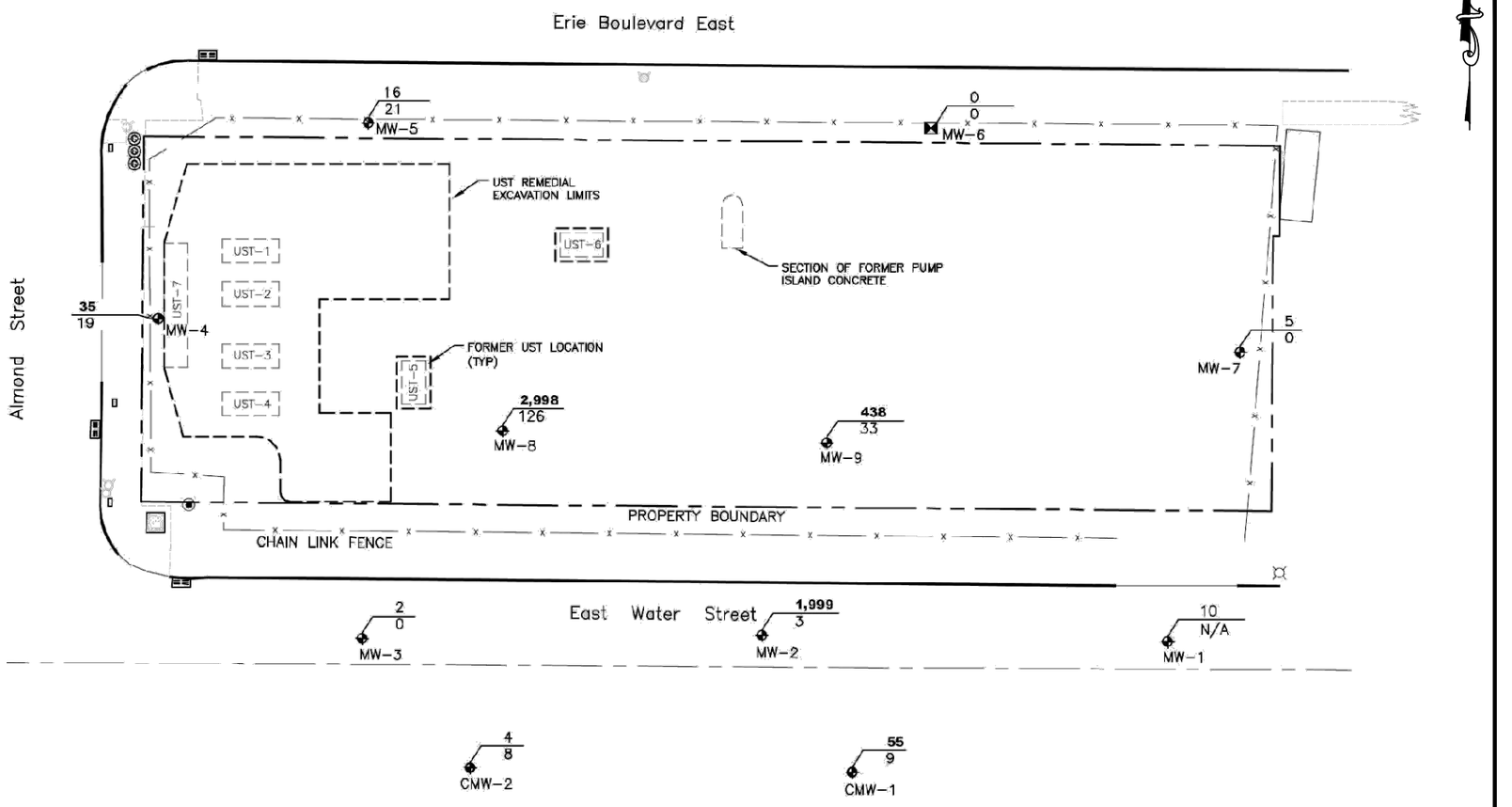
REMEDIAL INVESTIGATION SOIL CONTAMINATION SUMMARY

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE 5

GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY OF ORGANIC COMPOUNDS DETECTED IN EXCESS OF TOGS 1.1.1 GROUNDWATER STANDARDS

Sample Date	Sample ID	Parameter	TOGS 1.1.1 (ug/l)	Detected Concentration (ug/l)
2/27/2009	MW-1	No Exceedances	--	--
3/4/2009	CMW-1	Benzene	1	15.2
	CMW-1 FD	Benzene	1	14.3
2/27/2009	MW-2	Benzene	1	214
		Ethylbenzene	5	69.2
		Isopropylbenzene	5	75.8
		Toluene	5	35.9
		Xylene	5	287
3/4/2009	CMW-2	No Exceedances	--	--
2/27/2009	MW-3	No Exceedances	--	--
1/19/2012	MW-4	Isopropylbenzene	5	12.3
		n-Propylbenzene	5	11.4
	MW-4 FD	Isopropylbenzene	5	12.5
		n-Propylbenzene	5	11.4
	MW-5	No Exceedances	--	--
	MW-6	No Exceedances	--	--
	MW-7	No Exceedances	--	--
	MW-8	1,2,4-Trimethylbenzene	5	626
		1,3,5-Trimethylbenzene	5	176
		Benzene	1	49.4
		Ethylbenzene	5	404
		Isopropylbenzene	5	54
		n-Butylbenzene	5	11.6
		n-Propylbenzene	5	99.4
		Napthalene	10	111
		p-isopropyltoluene	5	5.6
		sec-Butylbenzene	5	8
		Toluene	5	109
		Xylene	5	689
	MW-9	Benzene	1	3.62
		Ethylbenzene	5	21.7
		Isopropylbenzene	5	25.6
		n-Butylbenzene	5	10.6
		n-Propylbenzene	5	49.7
		Napthalene	10	29.5
		p-isopropyltoluene	5	7.54
		sec-Butylbenzene	5	7.38
		Xylene	5	25.1



LEGEND:

TOTAL VOCs (ug/l)
TOTAL SVOCs (ug/l)
MW-# – MONITORING WELL LOCATION

NOTES:

1. **BOLD FONT** INDICATES A PARAMETER(S) WAS DETECTED ABOVE TOGS 1.1.1 GROUNDWATER STANDARDS.
2. TEST PIT, SOIL BORING, AND MONITORING WELL LOCATIONS ARE BASED ON OCTOBER 17, 2012 SURVEY CONDUCTED BY R.J. LIGHTON SR. - LAND SURVEYING.
3. FIGURE PREPARED TO SHOW GENERAL ARRANGEMENT OF PROPERTY FOR REMEDIAL INVESTIGATION REPORT. DO NOT USE FOR ANY OTHER PURPOSE.
4. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.

0 30' 60'
GRAPHIC SCALE

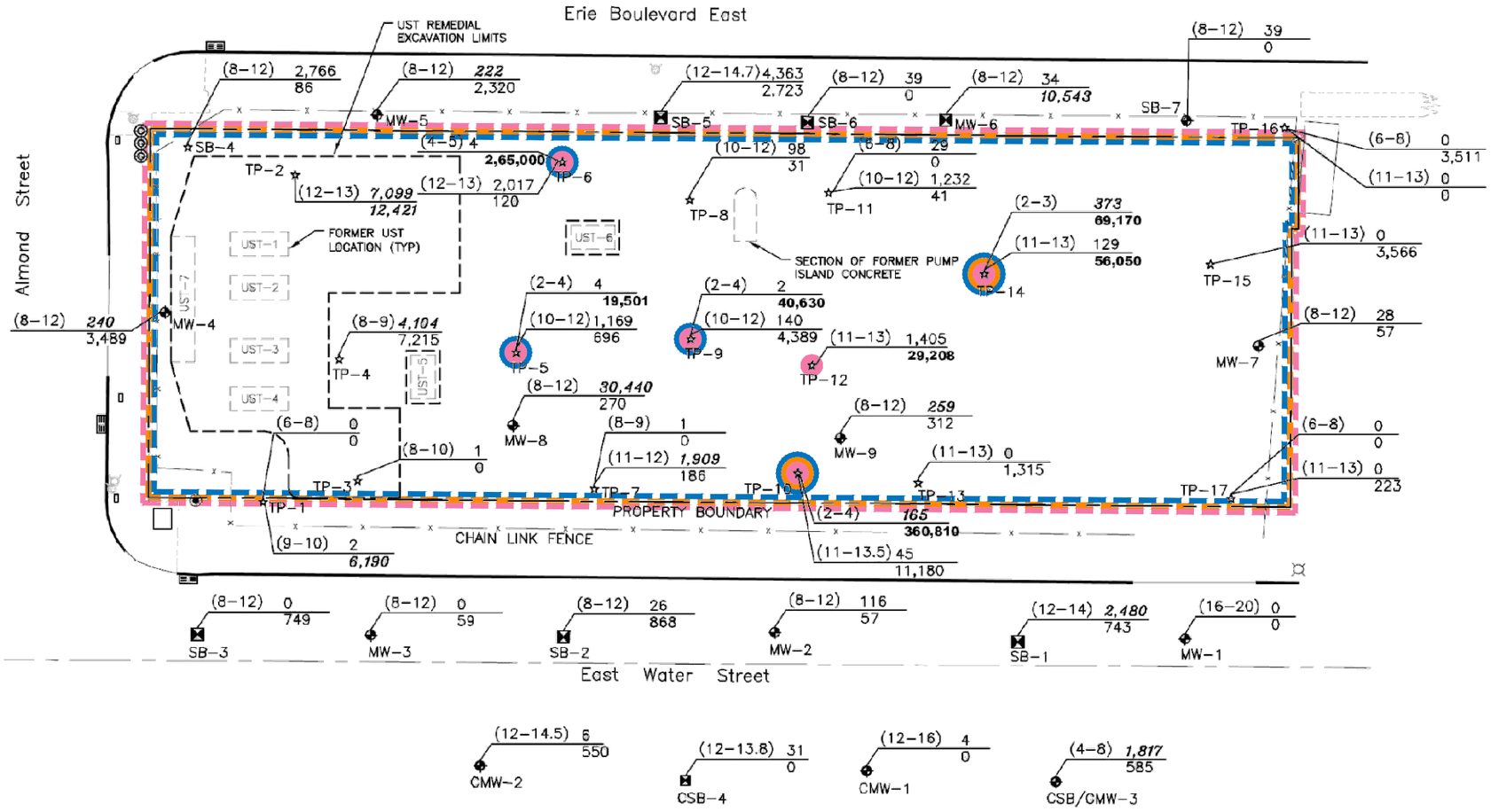
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

REMEDIAL INVESTIGATION
GROUNDWATER CONTAMINATION SUMMARY

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
6



LEGEND:

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
☆ TP-# – TEST PIT LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
■ SB-# – SOIL BORING LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
◆ MW-# – MONITORING WELL LOCATION

NOTES:

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2. **BOLD FONT** INDICATES A PARAMETER(S) WAS DETECTED ABOVE COMMERCIAL USE SOIL CLEANUP OBJECTIVES.
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5. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.
6. "SHALLOW" SOILS ARE DEFINED AS SOILS UP TO 5' BELOW THE SOIL COVER DEMARCATION BARRIER.

■ = IMPLIED (UNDEFINED) EXTENTS OF SHALLOW SVOC CONTAMINATION

■ = IMPLIED (UNDEFINED) EXTENTS OF SHALLOW VOC CONTAMINATION

■ = IMPLIED (UNDEFINED) EXTENTS OF SHALLOW METALS CONTAMINATION

● = SHALLOW SOIL SAMPLE EXHIBITING SVOC CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

● = SHALLOW SOIL SAMPLE EXHIBITING VOC CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

● = SHALLOW SOIL SAMPLE EXHIBITING METALS CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

0 30' 60'
GRAPHIC SCALE

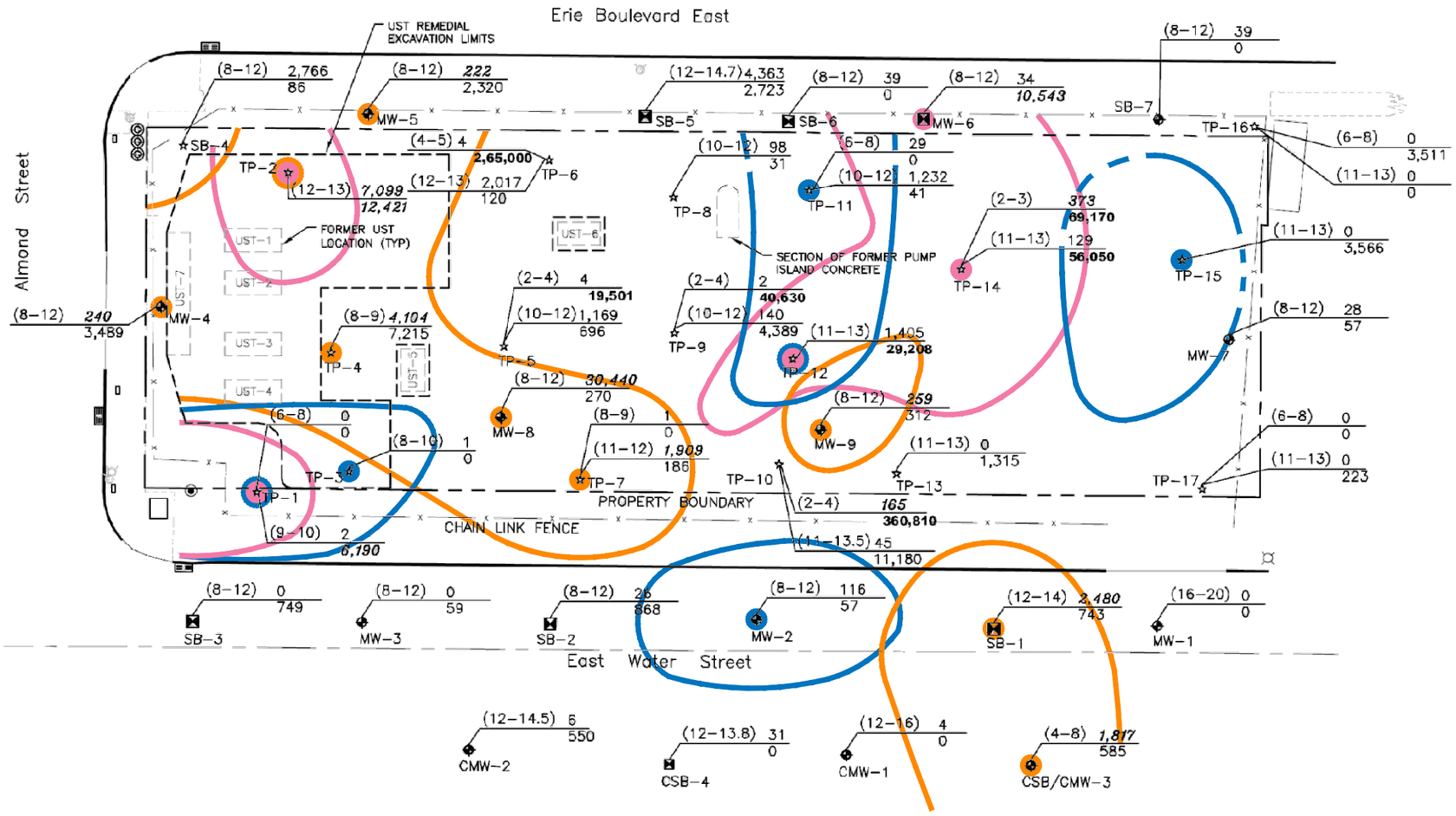
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

EXTENTS OF REMAINING SHALLOW SOIL
CONTAMINATION ABOVE UNRESTRICTED LEVELS

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
7



LEGEND:

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
☆ TP-# – TEST PIT LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
■ SB-# – SOIL BORING LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
● MW-# – MONITORING WELL LOCATION

NOTES:

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5. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.
6. "DEEP" SOILS ARE DEFINED AS SOILS GREATER THAN 5' BELOW THE SOIL COVER DEMARCATION BARRIER.

= IMPLIED EXTENTS OF DEEP SVOC CONTAMINATION

= IMPLIED EXTENTS OF DEEP VOC CONTAMINATION

= IMPLIED EXTENTS OF DEEP METALS CONTAMINATION

= DEEP SOIL SAMPLE EXHIBITING SVOC CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

= DEEP SOIL SAMPLE EXHIBITING VOC CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

= DEEP SOIL SAMPLE EXHIBITING METALS CONCENTRATIONS ABOVE UNRESTRICTED USE SCOs

0 30' 60'
GRAPHIC SCALE

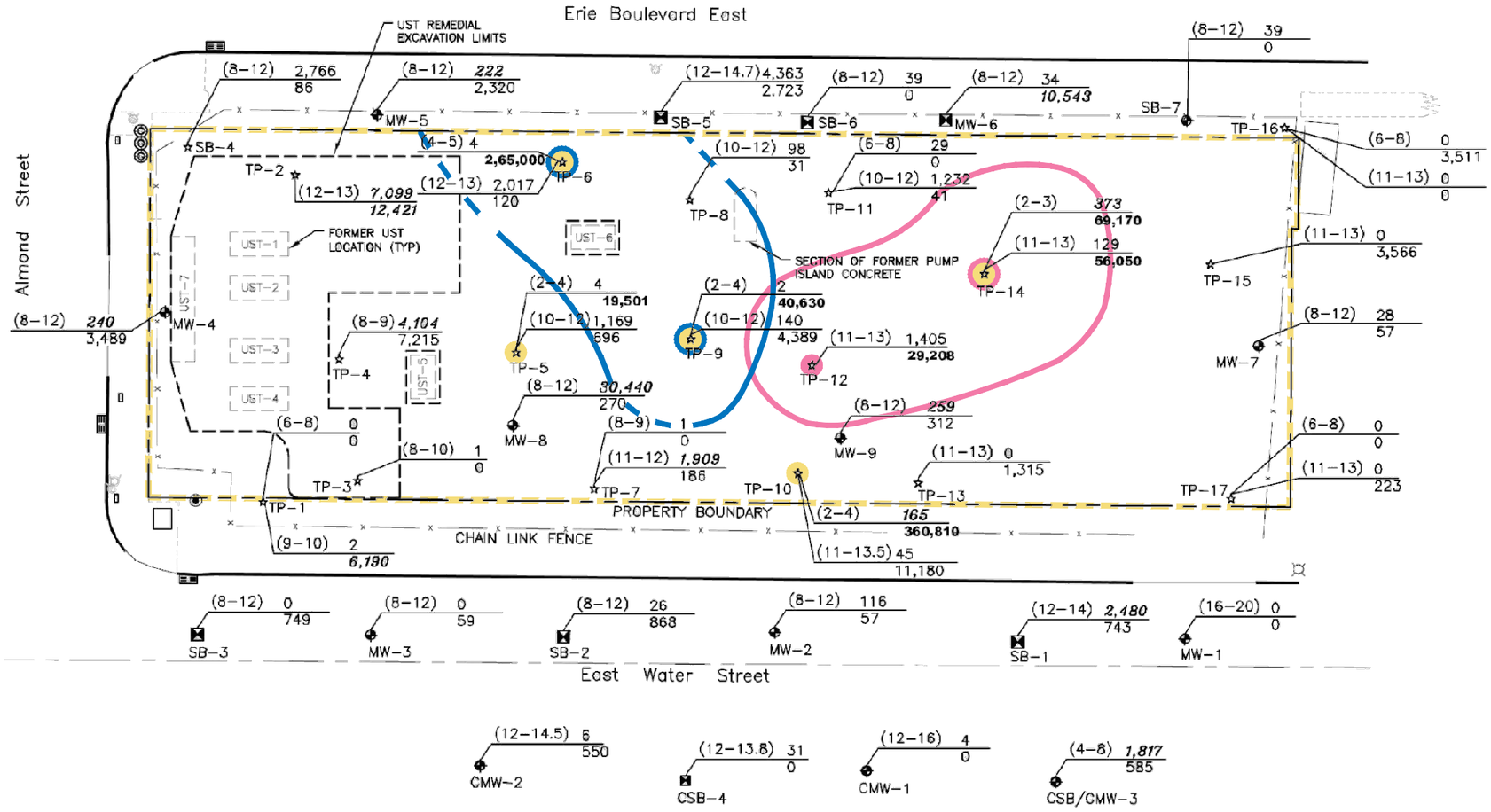
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

EXTENTS OF REMAINING DEEP SOIL
CONTAMINATION ABOVE UNRESTRICTED LEVELS

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
8



LEGEND:

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
☆ TP-# – TEST PIT LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
⊠ SB-# – SOIL BORING LOCATION

(SAMPLE DEPTH FT) TOTAL VOCs (ug/kg)
TOTAL SVOCs (ug/kg)
◆ MW-# – MONITORING WELL LOCATION

NOTES:

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7. "DEEP" SOILS ARE DEFINED AS SOILS GREATER THAN 5' BELOW THE SOIL COVER DEMARCATION BARRIER.

= IMPLIED (UNDEFINED) EXTENTS OF SHALLOW (<5' bgs) SVOC CONTAMINATION

= IMPLIED EXTENTS OF DEEP (>5' bgs) SVOC CONTAMINATION

= IMPLIED EXTENTS OF SHALLOW (<5' bgs) METALS CONTAMINATION

= SHALLOW SOIL SAMPLE EXHIBITING SVOC CONCENTRATIONS ABOVE COMMERCIAL USE RSCOs

= DEEP SOIL SAMPLE EXHIBITING SVOC CONCENTRATIONS ABOVE COMMERCIAL USE RSCOs

= SHALLOW SOIL SAMPLE EXHIBITING METALS CONCENTRATIONS ABOVE COMMERCIAL USE RSCOs

0 30' 60'
GRAPHIC SCALE

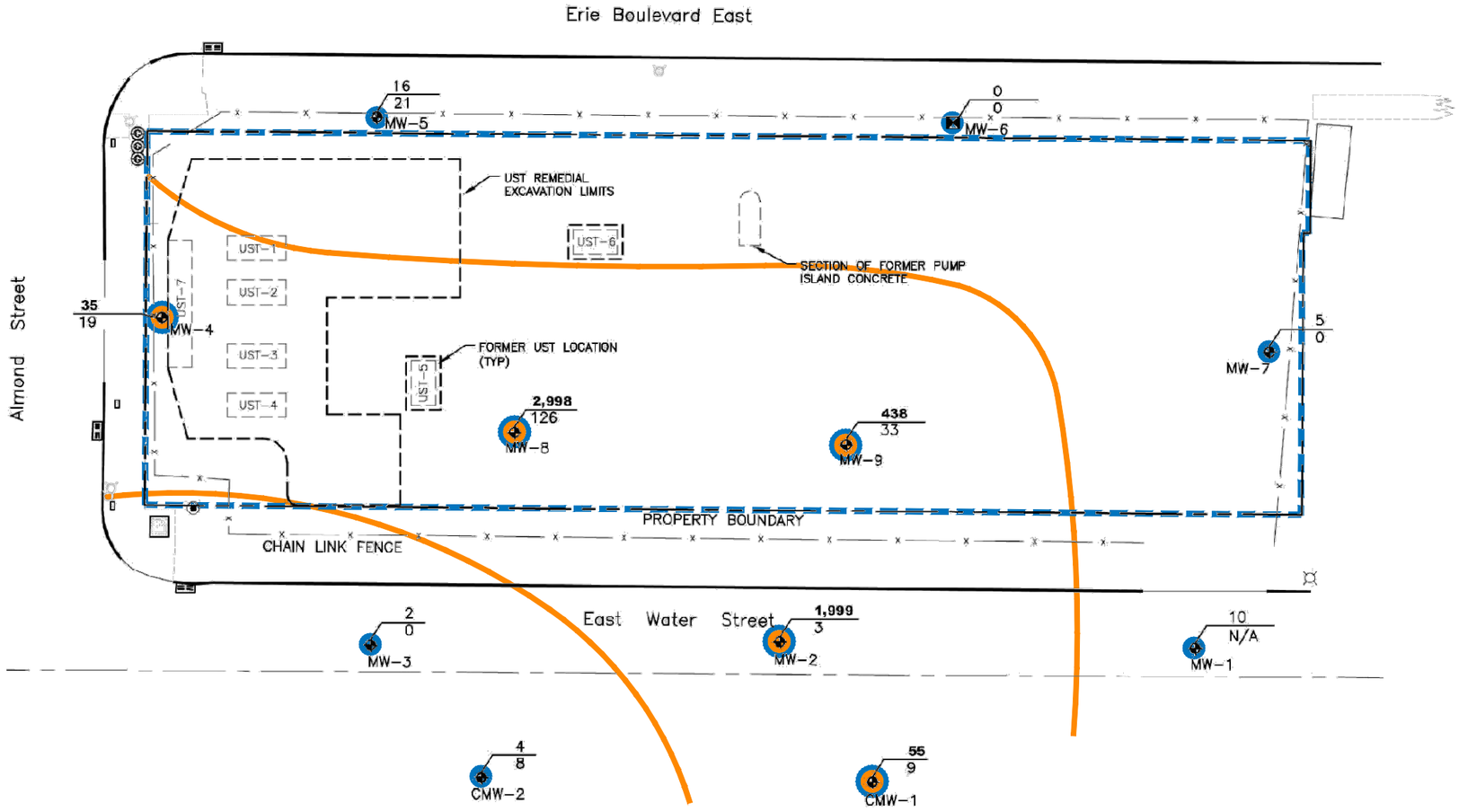
AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

EXTENTS OF REMAINING SOIL CONTAMINATION
ABOVE COMMERCIAL USE RSCOs

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
9



LEGEND:

TOTAL VOCs (ug/l)
TOTAL SVOCs (ug/l)
MW-# – MONITORING WELL LOCATION

NOTES:

1. **BOLD FONT** INDICATES A PARAMETER(S) WAS DETECTED ABOV TOG 1.1.1 GROUNDWATER STANDARDS.
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4. FIGURE MODIFIED FROM SCAN OF FIGURE BY BEARDSLEY DESIGN ASSOCIATES, JANUARY 2013.

= IMPLIED EXTENT OF VOC CONTAMINATION

= IMPLIED (UNDEFINED) EXTENT OF METALS CONTAMINATION

= VOCs IN GROUNDWATER

= METALS IN GROUNDWATER

0 30' 60'

GRAPHIC SCALE

AECC
ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 13-029
DRAWN: JULY 2016
DRAWN BY: HS
CHECKED BY: RM

EXTENTS OF CONTAMINANTS IN GROUNDWATER

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
10

Erie Boulevard East
(Open - 80' Wide)

Almond Street
(Open - 66' Wide)

East Water Street
(Open - 66' Wide)

TAPER = 3/1

EXISTING ASPHALT
(MUNICIPAL SIDEWALK)

406.25 406.73 406.71 406.82 406.87 406.94 406.96 407.04 407.08 407.09 407.13

Point of Beginning

405.71

Southerly Line

Top of Granite Curbing

S 89°31'20" E
237.96'

100.0'

MW-5

MW-6

TAPER = 3/1

405.53

Easterly Line

N 00°20'00" E
80.39'

MW-4

APPROXIMATE EXTENT OF BACKFILL ASSOCIATED WITH UST REMOVALS (INTERIM REMEDIAL MEASURE)

Wood Landscape Timber

18.80'
S 00°29'10" W

Existing Sign
(Uhaul)

N 89°31'20" W
1.33'

Blue Line of the former Erie Canal

TAPER = 5/1

19048.1 Sq. Ft. +/-
0.44 Acres +/-
(Total)

Tax Id. #030.-14-02.0
700 Out Parcel LLC - Reputed Owner
No.709 East Water Street

Existing Seam
In Blacktop

407.80

MW-7

61.62'
S 00°20'00" W

Tax. Id. #030.-14-03.1
No.740 Erie Boulevard East

408.43 408.43 408.25 407.63 408.38 407.97 406.2 407.29

Tax Id. #030.-14-01.0
700 Out Parcel LLC - Reputed Owner
No.701 East Water Street

MW-8

MW-9

EXISTING ASPHALT

Top of Granite Curbing

403.91

Utility Box

Traffic Signal Pole

100.0'

236.56'
N 89°30'50" W

Northerly Line

TAPER = 15/1

403.48

403.38 403.89 403.88 403.93 403.65 403.59 403.55 403.46 403.64

Top of Granite Curbing

TAPER = 3/1

EXISTING ASPHALT
(MUNICIPAL SIDEWALK)

EXISTING CONCRETE
(MUNICIPAL SIDEWALK)

CRUSHER RUN

12"

ORANGE DEMARCATION BARRIER

EXISTING BACKFILL
(CRUSHER RUN)

12"

2"

CRUSHER RUN

ORANGE DEMARCATION BARRIER

EXISTING ASPHALT
(TYP)

EXISTING SOILS

LEGEND:

- EXTENT OF GRAVEL COVER
- CHAIN LINK FENCE
- SEAM IN BLACKTOP
- GATE POST
- FIRE HYDRANT
- STEEL SAFETY POST
- MW-# MONITORING WELL
- \+ APPROXIMATE ELEVATION OF TOP OF COVER

NOTES:

1. SURVEY PROVIDED BY J.R.L. LAND SURVEYING, PLLC 7-31-15.
2. ALL LOCATIONS ARE APPROXIMATE.

0 20' 40'

GRAPHIC SCALE

STATE OF NEW YORK
HENRY NEVIN BRADFORD III
LICENSED PROFESSIONAL ENGINEER
No. 086008

REGISTERED AUTHORIZATION

STRATEGIC Environmental, LLC

AECC ENVIRONMENTAL CONSULTING

PROJECT NO. 13-029
DRAWN: NOV. 2016
DRAWN BY: HS
CHECKED BY: HNB/RM

AS-BUILT:
LOCATION OF COVER SYSTEM

701-709 EAST WATER STREET
SYRACUSE, NEW YORK

FIGURE
11

APPENDIX A – EXCAVATION WORK PLAN

APPENDIX A – EXCAVATION WORK PLAN

A-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Christopher Mannes, P.E.
Professional Engineer I
NYSDEC Region 7
615 Erie Blvd. West
Syracuse, NY 13204-2400

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the gravel cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP,
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120,
- A copy of the contractor's health and safety plan, in electronic format, if it differs from the HASP provided in Appendix D of this document,
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

APPENDIX A – EXCAVATION WORK PLAN

A-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as cover soil.

A-3 STOCKPILE METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

A-4 MATERIALS EXCAVATION AND LOAD OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

APPENDIX A – EXCAVATION WORK PLAN

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

A-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

APPENDIX A – EXCAVATION WORK PLAN

A-6 MATERIALS DISPOSAL OFF-SITE

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

A-7 MATERIALS REUSE ON-SITE

Chemical criteria for on-site reuse of material have been approved by NYSDEC and are listed as Commercial Use SCOs in the Table presented in 6NYCRR 375-6.8(b). The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site

will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

A-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

A-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the Decision Document. The demarcation layer (US Fabric 65HVO ORANGE Warning Barrier or equivalent material) will be replaced to provide a visual reference to the top of the 'Remaining Contamination Zone', the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this Site Management Plan. If the type of cover system changes from that which exists prior to the excavation (i.e., the gravel cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination Zone'. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the Site Management Plan.

A-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

APPENDIX A – EXCAVATION WORK PLAN

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are the Commercial Use RSCOs listed in the table presented in 6NYCRR375-6.8(b). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

A-11 STORMWATER POLLUTION PREVENTION

Since the construction will not exceed 1 acre in size, a Storm Water Pollution Prevention Plan (SWPPP) that conforms to the requirements of NYSDEC Division of Water guidelines and NYS regulations is not necessary. However, the following "Best Management Practices" will be observed when appropriate:

Barriers, silt fencing, or hay bales will be installed and inspected once a week and after every storm event. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

APPENDIX A – EXCAVATION WORK PLAN

A-12 CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

A-13 COMMUNITY AIR MONITORING PLAN

Prior to commencing excavation activities, a Community Air Monitoring Plan will be prepared in accordance with Appendix 1A of DER-10, Generic Community Air Monitoring Plan (CAMP). At a minimum, the CAMP will include:

- Details of the perimeter air monitoring program;
- Action levels to be used;
- Methods for air monitoring ;
- Analytes measured and instrumentation to be used;
- A figure of the location(s) of all air monitoring instrumentation.

A sample CAMP is presented in Appendix E.

The prevailing wind generally blows from west to east. However, monitoring locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

APPENDIX A – EXCAVATION WORK PLAN

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

A-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis will include covering odorous soils with polyethylene sheeting or similar tarp/cover. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils;. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

A-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

A-16 OTHER NUISANCES

The contractor shall ensure compliance with local noise control ordinances.

APPENDIX B – METES AND BOUNDS

J.R.L. LAND SURVEYING, PLLC

Serving all of New York State

James R. Lighton, LLS

37 First St Camillus, NY 13031

PH: (315) 632-2744 Fax: (315) 320-4298

All that tract or parcel of land situate in the City of Syracuse, County of Onondaga and State of New York being part of Block 261 of said City and also being part of the former Erie Canal Lands and being more particularly bounded and described as follows:

Beginning at the intersection of the easterly line of Almond Street and the southerly line Erie Boulevard East;

Thence S. 89-31'-20" E., along the southerly line of Erie Boulevard East, a distance of 237.96 feet to a point therein;

Thence S. 00-29'-10" W., a distance of 18.8 feet to a point in the blue line of the former Erie Canal;

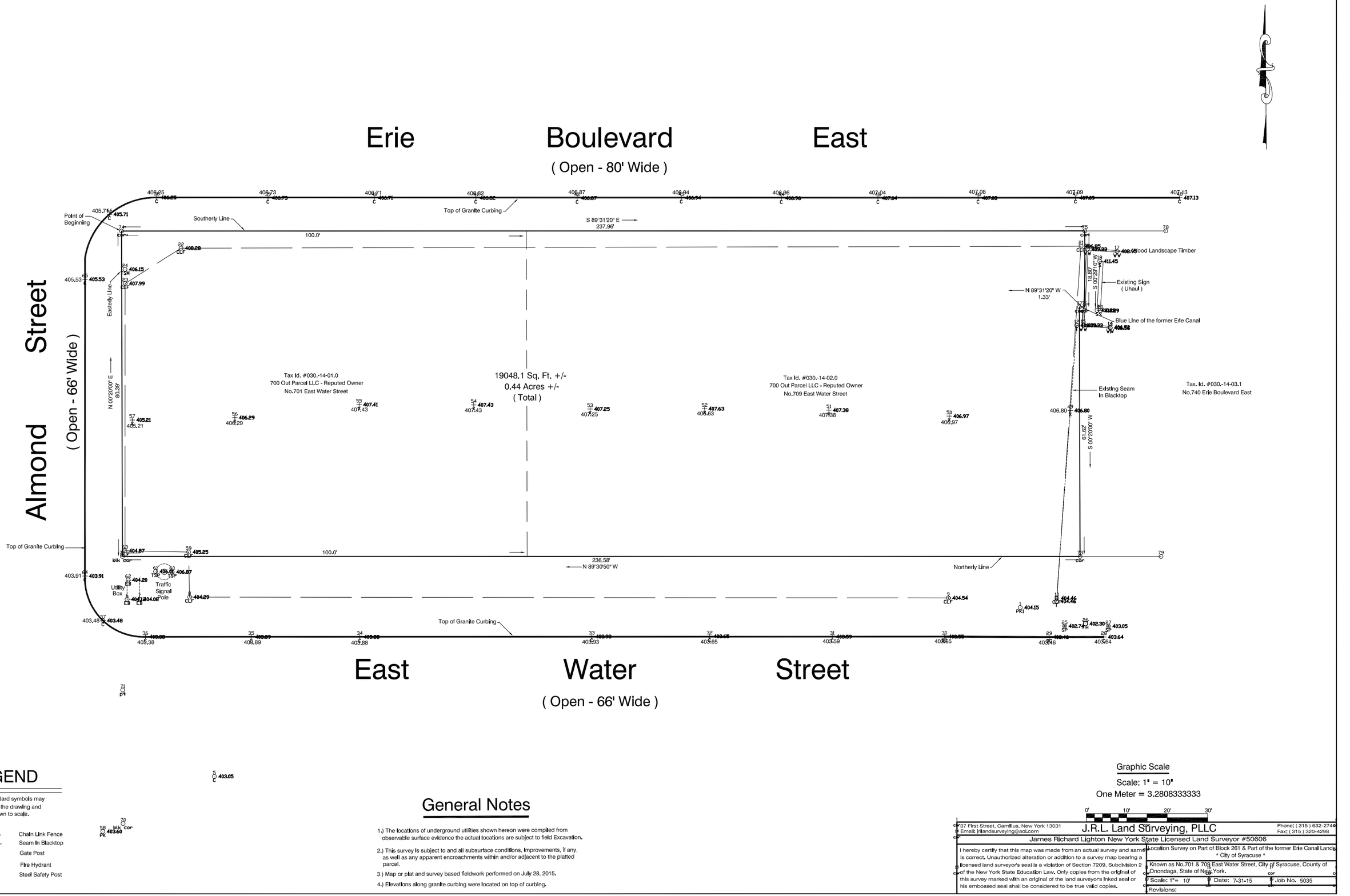
Thence N. 89-31'-20" W., along said blue line, a distance of 1.33 feet to a point;

Thence S. 00-20'-00" W., a distance of 61.62 feet to the northerly line of East Water Street;

Thence N. 89-30'-50" W., along the northerly of East Water Street, a distance of 236.58 feet to the easterly line of Almond Street;

Thence N. 00-20'-00" E., along the easterly line of Almond Street, a distance of 80.39 feet to the point and place of beginning.

The hereinbefore described parcel of land contains 19,048.1 square feet (0.44 acres) more or less and is subject to any and all easements, restrictions and/or rights of way of record and is "subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Remediation, Site Control Section, 625 Broadway, Albany, NY.12233 or derweb@dec.ny.gov".



LEGEND

These standard symbols may be found in the drawing and are not drawn to scale.

- Chain Link Fence
- Seam In Blacktop
- Gate Post
- Fire Hydrant
- Steel Safety Post

General Notes

1.) The locations of underground utilities shown hereon were compiled from observable surface evidence the actual locations are subject to field Excavation.

2.) This survey is subject to and all subsurface conditions, Improvements, if any, as well as any apparent encroachments within and/or adjacent to the platted parcel.

3.) Map or plat and survey based fieldwork performed on July 28, 2015.

4.) Elevations along granite curbing were located on top of curbing.

Graphic Scale

Scale: 1" = 10'

One Meter = 3.2808333333

0' 10' 20' 30'

637 First Street, Camillus, New York 13031
Email: jrllandsurveying@aol.com
J.R.L. Land Surveying, PLLC
Phone: (315) 632-2746
Fax: (315) 320-4298

James Richard Lighton New York State Licensed Land Surveyor #50606

I hereby certify that this map was made from an actual survey and same is correct. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of Section 7209, Subdivision 2 of the New York State Education Law. Only copies from the original of this survey marked with an original of the land surveyor's inked seal or his embossed seal shall be considered to be true valid copies.

Location Survey on Part of Block 261 & Part of the former Erie Canal Lands
* City of Syracuse *
Known as No.701 & 709 East Water Street, City of Syracuse, County of Onondaga, State of New York.

Scale: 1"= 10' Date: 7-31-15 Job No. 5035

Revisions:

APPENDIX C – ENVIRONMENTAL EASEMENT

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 25th day of April, 2016, between Owner(s) 700 Out Parcel, LLC, having an office at 505 East Fayette Street, Syracuse, New York 13202, County of Onondaga, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 701-709 East Water Street in the City of Syracuse, County of Onondaga and State of New York, known and designated on the tax map of the County Clerk of Onondaga as tax map parcel numbers: Section 030 Block 14 Lots 1.0 and 2.0, being the same as that property conveyed to Grantor by deed dated April 2, 2007 and recorded in the Onondaga County Clerk's Office in Liber and Page 4989/151. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.440 +/- acres, and is hereinafter more fully described in the Land Title Survey dated July 31, 2015 prepared by James R. Lighton, LLS of J.R.L. Land Surveying, PLLC, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: B7-0743-07-05, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Onondaga 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 Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) 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 property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C734111
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

700 Out Parcel, LLC:

By: _____

Print Name: NORMAN E. SWANSON

Title: MEMBER Date: 4-18-16

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ONONDAGA)

On the 18th day of April, in the year 2016, before me, the undersigned, personally appeared Norman E. Swanson, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Cindy L. Pollard
Notary Public - State of New York

CINDY L. POLLARD
Notary Public, State of New York
Qualified in Onondaga County
Reg. # 01PO6047284
Commission Expires 8/20/18

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 25th day of August, in the year 2016 before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

PATRICK EUGENE FOSTER
NOTARY PUBLIC, STATE OF NEW YORK
QUALIFIED IN KINGS COUNTY
NO. 02FO6278032
COMMISSION EXPIRES 03/18/2017

SCHEDULE "A" PROPERTY DESCRIPTION

NYSDEC Brownfield Site No.: C734111

All that tract or parcel of land situate in the City of Syracuse, County of Onondaga, and State of New York being part of Block 261 of said City and also being part of the former Erie Canal Lands and being more particularly bounded and described as follows:

Beginning at the Intersection of the easterly line of Almond Street and the southerly line of Erie Boulevard East;

Thence S, 89°-31'-20" E., along the southerly line of Erie Boulevard East, a distance of 237.96 feet to a point therein;

Thence S. 00°-29'-10" W., a distance of 18.8 feet to a point in the blue line of the former Erie Canal;

Thence N. 89°-31'-20" W., along said blue line, a distance of 1.33 feet to a point;

Thence S. 00°-20'-00" W., a distance of 61.62 feet to a point in the northerly line of East Water Street;

Thence N. 89°-30'-50" W., along the northerly line of East Water Street, a distance of 236.58 feet to the easterly line of Almond Street;

Thence N. 00°-20'-00" E., along the easterly line of Almond Street, a distance of 80.39 feet to the point and place of beginning.

The hereinbefore described parcel of land contains 19.048.1 square feet (0.44 acres) more or less and is subject to and together with any and all easements, restrictions and/or rights of way of record.

APPENDIX D – HEALTH AND SAFETY PLAN

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

D-1 INTRODUCTION

The General Site-Specific Health and Safety Plan (HASP) applies to the activities of this Site Management Plan (SMP), and sets forth requirements for maintaining the health and safety of persons at the Site. This General Site-Specific HASP is provided for informational purposes only. It addresses general health and safety issues related to the presence of specific chemical and physical hazards that may be encountered during performance of the work activities at the site. The Contractor is required to prepare and maintain their own site-specific HASP that incorporates the minimum requirements of this General Site-Specific HASP.

An Emergency Response Plan is included at the end of this Section, which presents the procedures to be followed in the event of an emergency situation. In addition, procedures designed to account for the potential for human exposure to unknown substances are included in the HASP.

The HASP will be periodically reviewed by the Contractor's Health and Safety Officer (HSO) during the project to verify that it is in accordance with the operations conducted at the site. Changes in site conditions or changes in the work tasks at the site will necessitate a review and modification of the HASP. The Contractor's HSO shall contact the Owner's Representative and Engineer if site conditions change that warrant modifications to the HASP. Changes, modifications, and amendments to the HASP will be made in the form of addenda, and will be attached to the HASP.

D-2 GENERAL DEFINITIONS

The following definitions shall apply to and are used throughout the HASP:

Contamination Reduction Zone – Area between the Exclusion Zone and Support Zone that provides a transition between contaminated and clean areas. Decontamination stations are located in this zone.

Contractor – Contractor responsible for performing work that will disturb potentially contaminated Site soils.

Exclusion Zone – Any portion of the Site where hazardous substances are present, or may reasonably be suspected to be present, in the air, water, or soil.

HSO – The Health & Safety Officer is a qualified professional designated by the Contractor who is responsible for the execution and maintenance of the HASP.

Monitoring – The use of field instrumentation to measure the levels of contaminants. Monitoring will be conducted, if deemed necessary (i.e., excessive airborne dust and particulates), to evaluate potential exposures to chemical and physical hazards.

On-site personnel – All personnel and subcontractors' personnel involved.

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

PPE – Personal Protective Equipment; clothing / gear worn by personnel within the work area that is designed to reduce exposure to chemical and / or physical hazards.

Project – All on-site work performed at the Site involving potentially contaminated soil disturbance (i.e., removal of concrete slabs, building foundations, footers, etc.).

Site – The subject property where the disturbance of potentially contaminated soil may occur.

Subcontractor – All subcontractors to the Contractor hired to work on this project.

Support Zone – The remainder of the Site outside of the Contamination Reduction Zone and Exclusion Zone. Support equipment is located in this zone.

Visitor – All other personnel, excluding the on-site personnel.

D-3 RESPONSIBILITIES

Implementation of the HASP will be accomplished through an integrated team effort. The following key personnel will be involved with this project:

~~Contractor's HSO~~	~~TBD~~
~~Contractor's Project Manager~~	~~TBD~~
~~Environmental Consultant (AECC)~~	~~Richard McKenna (315) 432-9400~~
~~Owner's Representative / CM~~	~~Brian St. Laurent (315) 471-7400~~
~~NYSDOH Representative~~	~~Richard Jones (315) 477-8148~~
~~NYSDEC Representative~~	~~Christopher Mannes (315) 426-7515~~

2022 Update:

Contractor's HSO	*TBD*
Contractor's Project Manager	*TBD*
Environmental Consultant (NEU-VELLE, LLC)	*Project Manager: Richard McKenna (315) 345-1649* *Health & Safety Officer: Mary Ellen Holvey (585) 690-3361*
Owner's Representative	*Brian St. Laurent (315) 471-7400*
NYSDOH Representative	*Stephen Lawrence (315) 477-8148*
NYSDEC Representative	*Christopher Mannes (315) 426-7515*

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

All parties to the project will perform their duties in a manner consistent with generally accepted practices, and will be responsible for the following (of their own employees) during the project:

- Verification that medical examinations and training requirements for all personnel are current.
- Providing the HASP to all on-site personnel.
- Implementation and maintenance of the HASP.
- Providing all on-site personnel with proper PPE.
- Compliance with the applicable state and federal health and safety standards.
- Maintaining a Daily Sign-In / Sign-Out Log of on-site personnel and visitors who enter the Site.

The HSO for this project is designated with the following responsibilities:

- Maintain a daily log book for recording all significant health and safety activities.
- Have authority to suspend work due to health or safety-related concerns.
- Provide on-site technical assistance and conduct health and safety briefings at the Site.
- Verify that first aid kits, eye wash kits, and fire extinguishers are at the Site.
- Verify that on-site personnel have received the necessary training and physical examinations.
- Verify that on-site personnel have been provided with and are using the required PPE.
- Review of the adequacy of the HASP and amend the HASP as necessary during the project.
- Prepare addenda to the HASP and maintain required documents for recordkeeping purposes.

D-4 SITE HAZARDS EVALUATION

D-4-1 Chemical Hazards

Soils grossly-contaminated with oil and gasoline compounds were identified during the removal of underground storage tanks (USTs) at the site. A total of approximately 1,810 tons of soil was excavated, stockpiled, transported, and disposed at a regulated landfill in May 2008. Laboratory analysis of the grossly-contaminated soils from the excavated areas revealed that the

material does not meet the criteria for hazardous waste. During subsequent investigations additional impacted soils were identified. Based on the information gathered during the RI, select VOCs (primarily BTEX compounds), SVOCs (primarily PAHs) and select metals (arsenic, barium, copper, lead and zinc) are present in the subsurface soils at the site. Groundwater investigations have identified select VOCs, SVOCs, and metals.

Known and presumed contaminants in site soils and / or groundwater at the site are as follows:

- Petroleum, including gasoline and oil (fuel and waste) compounds
- Metals (including antimony, arsenic, barium, chromium, cobalt, copper, lead, and zinc)
- Polycyclic aromatic hydrocarbons (PAH)
- Mineral spirits, lubricating oils, and kerosene/JP8

The chemicals of potential concern outlined above may enter the human body in a variety of ways. The chemical routes of exposure anticipated from remedial activities at this Site include:

Absorption - Dermal (skin) contact with impacted soil / groundwater on-site resulting in absorption of chemicals of concern through the skin and into the blood stream. Proper use of PPE as specified later in this Section will minimize risks of exposure at the Site.

Ingestion - Chemicals of concern come in direct contact with the mouth from soil or other contaminated areas (PPE, skin, tools, etc.) and enter the bloodstream through the stomach lining. Proper care in handling PPE and tools and refraining from eating and drinking at the Site will minimize risks of exposure.

Inhalation - Chemicals of concern, both volatilized and attached to dust and particulates, are entrained by wind and become airborne across the Site and are subsequently inhaled through the nose and / or mouth. This exposure route is the most likely way for worker exposure to occur on-site. The Contractor shall employ excavation methods that minimize the creation of dust and utilize dust suppression techniques to minimize continued entrainment of dust and particulates. The Contractor is responsible for any personal air monitoring of his employees.

D-4-2 Physical Hazards

Based upon the anticipated field activities, the following potential hazard conditions may exist:

- The use of typical mechanical equipment such as backhoes, trackhoes, bulldozers, and jack hammers can create a potential for crushing and pinching hazards due to movement and positioning of the equipment, movement of lever arms and hydraulics, and

entanglement of clothing and appendages in exposed drives and tracks. Mechanical equipment can also create a potential for impact of steel tools, masts, and cables should equipment rigging fail, or other structural failures occur during hydraulic equipment operation. Heavy equipment work must be conducted only by trained, experienced personnel. If possible, personnel must remain outside the turning radius of large, moving equipment. At a minimum, personnel must maintain visual contact with the equipment operator. When not operational, equipment must be set and locked so that it cannot be activated, released, dropped, etc. The mechanical equipment stated above represents typical equipment that is ordinarily used during this scope of work, but is not meant to be an all-inclusive list. Similar precautions should be used around other mechanical equipment deployed to the Site that is not listed above.

- Excavation and trenching are extremely hazardous activities on construction sites with the primary hazard of persons in the excavations or trenches being injured or killed by a collapse. Secondary hazards include the potential for hazardous atmospheres, the potential for underground utilities (electrical, natural gas, water, etc) and possible fall hazards associated with people or materials falling into the excavation. The contractor is responsible for ensuring compliance with OSHA's construction standard for excavations (29 CFR 1926 Subpart P), and for designating the Competent Person responsible for selecting and implementing the appropriate protective system(s), assuring appropriate means of access and egress for excavations greater than four (4) feet in depth, and for ensuring that potential atmospheric and physical hazards associated with the excavation / trenching activities are completed in accordance with Subpart P and other applicable OSHA Standards as applicable.

- Equipment can be energized due to contact with overhead or underground electrical lines, utilities impaired by excavation of communication or potable / wastewater lines, or a potential for fire or explosion may occur due to excavation of below ground propane / natural gas lines. The Contractor is responsible for contacting Dig-Safely New York to inspect and flag the construction area prior to commencement of invasive operations. Personnel should be aware that although an area may be cleared, it does not mean that unanticipated hazards will not appear. Mechanical equipment will maintain a safe minimum distance of 10 feet from live electrical equipment. Workers should always be alert for unanticipated events such as snapping cables, unearthing unmarked underground utilities, etc. Such occurrences should prompt individuals to halt work immediately and take appropriate corrective measures to gain control of the situation.

- Work around large equipment often creates excessive noise. Noise can cause workers to be startled, annoyed, or distracted; cause pain, physical damage to the ear, and

temporary and / or permanent hearing loss; and can interfere with communication. If workers are subjected to noise exceeding an 8-hour time-weighted average sound level of 85 dBA, hearing protection will be required with an appropriate noise reduction rating to comply with 29 CFR 1910.95 and to reduce noise levels below levels of concern.

- Personnel may be injured during physical lifting and handling of heavy equipment, construction materials, or containers. Additionally, personnel may encounter slip, trip, and fall hazards associated with excavations, manways, and construction debris and materials. Precautionary measures should be taken by identifying and removing slip, trip, and fall hazards prior to commencing work. In the event slip, trip, and fall hazards cannot be removed or minimized, site workers will be shown the location of the physical hazard and be asked to avoid it during work activities.

- The potential for fire and / or explosion emergencies is always present on the Site. Field vehicles will be equipped with a fire extinguisher. Employees must be trained in the proper use of fire suppression equipment. However, large fires that cannot be controlled with a fire extinguisher should be handled by professionals. The proper authorities should be notified in these instances.

Heat stress is another potential hazard condition that may arise. Heat stress can result from a number of contributing factors, including environmental conditions, clothing, and workload as well as the physical condition of the individual. Since heat stress is one of the most common injuries / symptoms associated with outdoor work conducted with direct solar load, and, in particular, because wearing PPE can increase the risk of developing heat stress, workers must be capable of recognizing the signs and symptoms of heat-related illnesses. Signs and symptoms of heat-related illnesses which all on-site personnel should be aware, include the following:

- Heat rash may result from continuous exposure to heat or humid air.
- Heat cramps are caused by heavy sweating and may include muscle spasms and pain in the hands, feet, and abdomen.
- Heat exhaustion is indicated by pale, cool, and moist skin; heavy sweating; dizziness; nausea; and fainting.
- Heat stroke is indicated by red, hot, and unusually dry skin; lack of or reduced perspiration; nausea; dizziness and confusion; rapid pulse; and coma. Immediate action must be taken to cool the body before serious injury or death occurs.

Furthermore, persons working outdoors in temperatures at or below freezing may be subject to frostbite. Extreme cold for a short time may cause injury to exposed body surfaces or result in a profound generalized cooling which can cause death. Areas of the body such as fingers,

toes, and ears, are the most susceptible to cold stress. Ambient air temperature and wind velocity are two factors which influence the development of a cold weather injury. Local injury resulting from exposure to cold temperatures is known as "frostbite." There are several degrees of damage in which frostbite of the extremities can be categorized, as follows:

- Frost nip or incipient frostbite is characterized by sudden bleaching or whitening of the skin.
- Superficial frostbite occurs when the skin has a waxy or white appearance and is firm to the touch, but tissue beneath is resilient.
- Deep frostbite is characterized by tissues that are cold, pale, and solid; this is an extremely serious injury.

D-5 PERSONAL PROTECTIVE EQUIPMENT

Personnel will be required to wear Level D and Modified Level D PPE ensembles, at a minimum. The following PPE ensembles shall be worn by on-site personnel for the following tasks:

Level D Protection, as listed below, shall be worn by on-site personnel at all times when tasks are performed which DO NOT INVOLVE dermal exposure, or contact with chemical hazards:

- Standard outer garments (i.e. long pants and long-sleeve shirt)
- Durable leather steel-toed work boots
- Durable leather gloves
- Eye protection
- Hard hat
- Hearing protection

Modified Level D Protection, as listed below, shall be worn by on-site personnel at all times when tasks are performed which INVOLVE dermal exposure or contact with chemical hazards:

- Disposable coveralls worn over standard outer garments. Personnel will frequently verify the integrity of their coveralls by checking for holes or tears.
- Durable leather steel-toed work boots
- Disposable nitrile gloves. Personnel will frequently verify the integrity of their gloves by checking for holes or tears.
- Rubber boots worn over work boots
- Eye protection

- Hard hat
- Hearing protection

Respirator use is not anticipated for use on this project. If respiratory protection becomes necessary, a determination shall be made regarding each person's physical ability to wear a respirator. Consequently, persons required to wear respirators must provide the Contractor's HSO with current documentation (not older than 6 months) regarding their physical condition and ability to wear a respirator, as certified by a qualified physician. Failure to provide current, complete respirator certification documentation will be sufficient grounds to preclude personnel from conducting work activities where respiratory protection is required.

D-6 PERSONNEL TRAINING

D-6-1 Requirements and Responsibilities

All on-site personnel and visitors will be trained commensurate with their job responsibilities and in accordance with Occupational Safety and Health Administration (OSHA) training and medical surveillance requirements as specified in 29 CFR 1910.120. The Contractor is responsible for providing such training prior to personnel being allowed to engage in activities that could expose them to health and safety hazards. The HSO has the responsibility to assure that this training is provided for the site-conditions and such training is updated, as needed. The HSO and Contractor's Project Manager will be trained in basic first aid, and at least one of these individuals will be present during each work shift while personnel are at the Site.

D-6-2 Site Orientation Meeting

The Contractor will be responsible for notifying all on-site personnel of required attendance at a site orientation meeting, which will be organized by the Contractor's HSO. Any subcontractor personnel will be required to attend the site orientation meeting as well as any other periodic health and safety meeting specified by the HSO. Personnel attending the site orientation meeting are to sign a Site Orientation Meeting Attendance Acknowledgment Form. The following is a listing of general site orientation training topics:

- Names and responsibilities of key personnel
- Safe work practices
- Personal protective equipment
- Chemical and physical hazards
- Site equipment Medical surveillance
- Site hazards

- Site control measures
- Decontamination procedures
- Standard operating procedures
- Emergency response plan

D-6-3 Documentation / Recordkeeping

OSHA regulations require medical surveillance in the form of annual medical examinations for certain types of work involving exposure to hazardous or toxic substances. All on-site personnel, visitors, and subcontractors are required to have documented proof on file of OSHA training and medical surveillance requirements as specified in 29 CFR 1910.120 to demonstrate compliance with the training requirements specified in this Section. The HSO is responsible to check all personnel to ensure training is kept current during the project.

D-7 MEDICAL CLEARANCE

Medical clearance refers to OSHA requirements for annual physical reports performed by a licensed physician, which document a worker's physical ability to perform specific job duties. Medical clearance is not required for on-site personnel or visitors at the Site, except for OSHA medical surveillance requirements for workers within the Exclusion Zone, Contamination Reduction Zone, or Loading Zone.

D-8 STANDARD OPERATING PROCEDURES

Potential chemical and physical hazards exist at the Site. This Section presents Standard Operating Procedures (SOPs) that will be followed during the project. Specific precautions to avoid the potential hazards for each task are presented herein.

D-8-1 General SOPs

Workers shall adhere to the established SOP for their respective specialties. Work at the Site will be conducted according to established procedures and guidelines for the safety and health of all involved. General SOPs at the Site include the following:

- All questions should be referred to the Contractor's HSO or Project Manager.
- All on-site personnel will be trained and briefed on anticipated hazards, equipment to be worn, safety practices to be followed, emergency procedures, and communications.
- Inspections of the Site will be conducted to ensure compliance with the HASP, and if any change in operation occurs, the HASP will be modified to reflect any change.
- Be observant of not only one's own immediate surrounding but also that of others.

- On-site personnel in the work zone will act as safety backup to each other, and on-site personnel outside the work zone will provide emergency assistance when necessary.
- Use extra precautions when working near heavy equipment.
- Communications using hand signals or other means will be maintained between on-site personnel, the HSO, and the Project Manager at all times.
- Breaks should be planned to prevent heat, cold, stresses, accidents, and fatigue.
- Work areas for various operational activities will be established.
- Strict pedestrian and vehicular traffic control will be maintained on-site.
- Entrance / exit locations and emergency escape routes will be designated and delineated.
- On-site personnel and equipment in each Work Area will be minimized to maintain effective Site operations.
- Required PPE ensembles must be worn by all on-site personnel entering work areas designated for wearing PPE. At minimum, hard hat, safety glasses, steel-toe boots, durable leather gloves, and hearing protection will be worn on the project Site.
- Work Areas and decontamination procedures will be established based on expected Site conditions.
- Plan work procedures and decontamination areas to minimize contamination exposure.
- Contaminated equipment shall not be placed on unprotected surfaces.
- Procedures for leaving a Work Area will be planned prior to entering the Site.
- All electrical equipment (power tools, extension cords, instruments, etc.) will conform to 29 CFR 1926.400 Subpart K.
- Fire prevention and protection (appropriate signs for flammable liquids, smoking areas, storage areas of combustible or flammable materials, etc.) will be in accordance with OSHA 29 CFR 1926.150 Subpart F.

Violation of these SOPs will result in immediate dismissal from the Site.

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

D-8-2 Site Control Measures

Site control measures will minimize potential contamination of on-site personnel, protect the public from potential on-site hazards, and prevent vandalism of equipment and materials. Site control measures also enhance response in emergency situation.

Prior to commencement of soil excavation activities, a site perimeter boundary will be established using yellow construction tape along the property lines surrounding the parcel for the duration of the project. Portions of the Site will be routinely divided into three distinct areas: an Exclusion Zone, a Contamination Reduction Zone (CRZ), and a Support Zone.

Exclusion Zone

The Exclusion Zone will be designated as the area where the highest potential for exposure by dermal or inhalation routes exists. The Exclusion Zone coincides with areas being excavated. PPE is required and a daily log will be kept of all personnel entering this zone. The Exclusion Zone will be marked off by barricades or barrier tape which will be placed a minimum of 20 feet from the edge of the active operation. Some situations may necessitate distances of less than 20 feet; these situations will be reviewed by the HSO. Approval for entry into the Exclusion Zone will require compliance with OSHA training and medical surveillance requirements (29 CFR 1910.120). Subcontractor and vendor equipment will not be permitted to enter the Exclusion Zone without prior authorization and will be subject to Site decontamination procedures. All personnel and equipment shall be decontaminated when leaving the Exclusion Zone. No eating, drinking, or smoking will be permitted in the Exclusion Zone.

Contamination Reduction Zone (CRZ)

The Contractor will establish the CRZ in an area between the Exclusion Zone and Support Zone. Approval for entry into the CRZ will require compliance with OSHA training and medical surveillance requirements (29 CFR 1910.120). Access to the Exclusion Zone will be through the CRZ. The CRZ will be designated as the area immediately adjacent to and surrounding the Exclusion Zone. The probability of dermal and inhalation exposure is lower in the CRZ than in the Exclusion Zone. The CRZ includes facilities for personnel and equipment decontamination. PPE worn in the Exclusion Zone may not be worn outside the CRZ, except during emergencies. No eating, drinking, or smoking will be permitted in the CRZ.

Support Zone

The Support Zone includes all areas outside the CRZ and Loading Zone. The exposure potential in the Support Zone is minimal. The Support Zone provides a changing area for personnel entering the CRZ and Exclusion Zone, as well as an area for the storage of clean equipment and materials. Protective clothing worn in the Exclusion Zone will not be allowed to be worn in the Support Zone, except in emergencies. It is the responsibility of the Project Manager

to control access to the Site and to assure proper security. Any evidence of unauthorized entry will be noted in the daily log.

Under no circumstances will the general public be permitted to access the property. All preapproved visitors will be briefed on the HASP, and shall sign the Daily Site Sign-In / Sign-Out Log. Pre-approved visitors will be permitted in the immediate area of active operations only with approval from the Contractor's HSO or Project Manager. All personal vehicles are restricted to the Support Zone.

D-8-3 Communication Procedures

Personnel in the Exclusion Zone will remain within sight of other project personnel. The commonly used international hand and arm signals are listed below, and will be used when necessary:

Signal	Meaning
Right hand thumbs up	OK, I'm All Right
Right hand thumbs down	No, Negative
Rotating both hands at sides	Situation Under Control
Rotating both hands above head	Need Assistance
Hand gripping throat	Out of Air, Cannot Breathe
Both hands placed on hips	Leave Area Immediately
Rotating both hands at knees	Situation Grave, Evacuate Immediately
Both hands placed on top of head	Returning to Support Zone

D-8-4 Decontamination Procedures

On-site personnel performing remediation tasks under the Modified Level D PPE ensemble will perform decontamination operations in accordance with the following steps:

- Remove and discard boot covers if worn.
- Wash boots brushed with a liquinox solution and rinse with potable or distilled water.

- Remove coveralls first (if applicable), then remove nitrile gloves and place in the disposal container staged in the CRZ. All disposable PPE (gloves, coveralls), rags, cloths, etc. will be containerized separately from general refuse, and disposed of in accordance with the applicable regulations.
- Remove and discard inner gloves in a 55-gallon drum.
- Proceed to the Support Zone bringing decontaminated tools and sampling containers.
- Wash hands, face, and other exposed skin with soap and water. Shower and shampoo as soon as possible at the end of the work day, before any social activities.
- Place non-disposable coveralls in plastic bags prior to leaving the Site and prior to entering any vehicle.
- Launder non-disposable clothing worn in Exclusion Zone prior to reuse, separately from other laundry items.

D-8-5 Periodic Health and Safety Meetings

The HSO will conduct weekly health and safety meetings. These meetings will be a review of existing protocols as well as a means to update personnel on new Site conditions. The meetings will also provide an opportunity for on-site personnel to discuss health and safety concerns. Topics for discussion may include, but are not limited to, the following:

- Review of the type and frequency of environmental and personal monitoring.
- Task-specific levels of protection and anticipated potential for upgrading.
- Review of existing and new health and safety issues.
- Review of emergency procedures.

D-9 ACCIDENT AND EMERGENCY RESPONSE PLAN

This Section includes procedures and methods of evaluating and addressing medical, fire, and other emergency situations which may occur at the Site. In any unknown situation, always assume the worst conditions and plan responses accordingly. All emergency situations require concise and timely actions conducted in a manner that minimizes the health and safety risks to on-site personnel and to the public. All on-site personnel shall be familiar with the Emergency Response Plan.

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

D-9-1 Responsibilities

The Contractor's HSO and Project Manager have the shared responsibility for directing response activities in the event of an emergency or accident, and will be responsible for the following:

- Assess the situation
- Determine required response measures
- Notify appropriate response teams
- Direct on-site personnel during the emergency

The Contractor's HSO or Project Manager will coordinate the response activities of on-site personnel with those of public agencies. A list of agencies to be contacted and who may, depending on the nature of the situation, assume authority for emergency response is presented in Section 7.9.6. This table includes names and telephone numbers of local hospitals, ambulance service, fire and police departments, and other applicable agencies. The HSO will notify emergency response agencies and establish emergency procedures prior to commencing remedial activities at the Site.

D-9-2 Emergency Procedures

Due to the nature of the tasks to be conducted at the Site, the emergency situations that may occur are most likely limited to personnel accidents (i.e., slip, trip, and fall accidents; equipment related accidents, etc.) requiring first aid. The following procedures shall be followed in the event of an emergency:

- On-site personnel shall report all accidents and unusual events to the HSO.
- The HSO will assess the situation. If off-site assistance and medical treatment is required, the HSO will designate a person to call the proper authorities.
- First-aid or other applicable treatment will be provided by properly trained individuals.
- The HSO will inform the Project Manager of the injury/accident, and an Accident Report Form detailing the causes and consequences of the injury/accident will be submitted to the Project Manager within 48 hours of the incident. The Accident Report Form shall include:
    - Names and social security numbers of accident victims and witnesses
    - Date and time of accident
    - Location, cause, and duration of accident

- A description of corrective actions implemented
- Off-site persons and agencies notified and time of arrival at the Site.

Personnel shall make all reasonable attempts to conduct themselves in a calm manner in the event of an accident.

D-9-3 Accident and Injuries

Every accident is a unique event that must be dealt with by trained personnel working in a calm, controlled manner. I n the event of an accident, the prime consideration is to provide the appropriate initial response to assist those in jeopardy without placing additional personnel at unnecessary risk. Several types of emergencies are outlined in the following subsections. These are not intended to cover all emergency situations.

If a person working on the Site is physically injured, basic first-aid procedures will be followed. Depending on the severity of the injury, outside medical assistance may be sought. If the person can be moved, the person will be taken outside of the Work Area, PPE will be removed, and first aid administered. If necessary, transportation to a medical facility will be provided. If the person can only be moved by emergency medical personnel, the HSO will decide what type of PPE (if any) will be required to be worn by emergency personnel.

If the injury to on-site personnel involves chemical exposure, the following first aid procedures will be initiated as soon as possible:

Eye Exposure - If solid or liquid gets into the eyes, wash eyes immediately at the emergency eyewash station using water and lifting the lower and upper lids occasionally. This emergency eyewash station shall be a portable station provided by the Contractor and set up within the CRZ. If an acute exposure is identified, then obtain medical attention immediately. Otherwise, consultation with a doctor shall be discretionary based on the severity of the incident.

Skin Exposure - If solid or liquid gets on the skin causing irritation or pain, wash skin immediately at the emergency eyewash station using water. If an acute exposure is identified, then obtain medical attention immediately. Otherwise, consultation with a doctor shall be discretionary based on the severity of the incident.

Inhalation – In the rare event that a person inhales large amounts of organic vapor or dust, and is overcome, move the person to fresh air at once. Obtain medical attention immediately. If breathing has stopped, appropriately trained personnel and / or medical personnel should perform cardiopulmonary resuscitation. Keep the affected person warm and at rest.

Ingestion - If solid or liquid is swallowed, medical attention must be obtained immediately and the Poison Control Center consulted.

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

D-9-4 Fire

On-site personnel will be knowledgeable in fire-extinguishing techniques. They will be instructed in proper use and maintenance of the fire extinguishers supplied at the work areas. Fire extinguishers should be used only for small fires which are in the early stages of development. Where the fire cannot be controlled through extinguisher use, the area should be evacuated immediately. The local fire department should be called to extinguish the fire. Fire extinguishers shall be provided by the Contractor.

D-9-5 Emergency Evacuation

In extraordinary circumstances, emergency evacuation of the Site may be necessary. On-site personnel will be notified of the need to evacuate verbally or by signaling with an air horn. If the situation is deemed an emergency, personnel will be instructed to leave the Site immediately, using the closest available evacuation route; otherwise, personnel will be expected to go through normal decontamination procedures before leaving the Site. In either case, personnel will be instructed to meet at a central location. A head count will be made to ensure that all personnel are safe and accounted for. The HSO will contact appropriate response agencies, as warranted. Motorized equipment / machinery will be shut off before the Site is evacuated.

D-9-6 Emergency Response and Area Hospitals

In case of emergency, call 911 or the appropriate individual authority:

Project Location: 701-709 East Water Street, Syracuse, New York	
Owner Representative	**Mr. Brian St. Laurent** (315) 471-7400
AECC Contact	**Richard McKenna** (315) 345-1649
Local Hospital (see below)	**SUNY Upstate (Upstate Medical University)**
Emergency Response Number	911
Poison Control Center	(800) 222-1222
State Police (Lafayette)	(315) 457-2600

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN

2022 Update:

Project Location: 701-709 East Water Street, Syracuse, New York	
Owner Representative	***Mr. Brian St. Laurent*** *(315) 471-7400*
NEU-VELLE Project Manager	***Richard McKenna*** *(315) 345-1649*
NEU-VELLE Health & Safety Officer	***Mary Ellen Holvey*** *(585) 690-3361*
Local Hospital *(see below)*	***SUNY Upstate (Upstate Medical University)***
Emergency Response Number	*911*
Poison Control Center	*(800) 222-1222*
State Police (Lafayette)	*(315) 457-2600*

Nearest Hospital

Nearest Hospital Name: SUNY Upstate (Upstate Medical University)

Hospital Location: 750 East Adams Street, Syracuse, NY

Hospital Telephone: (315) 464-5540

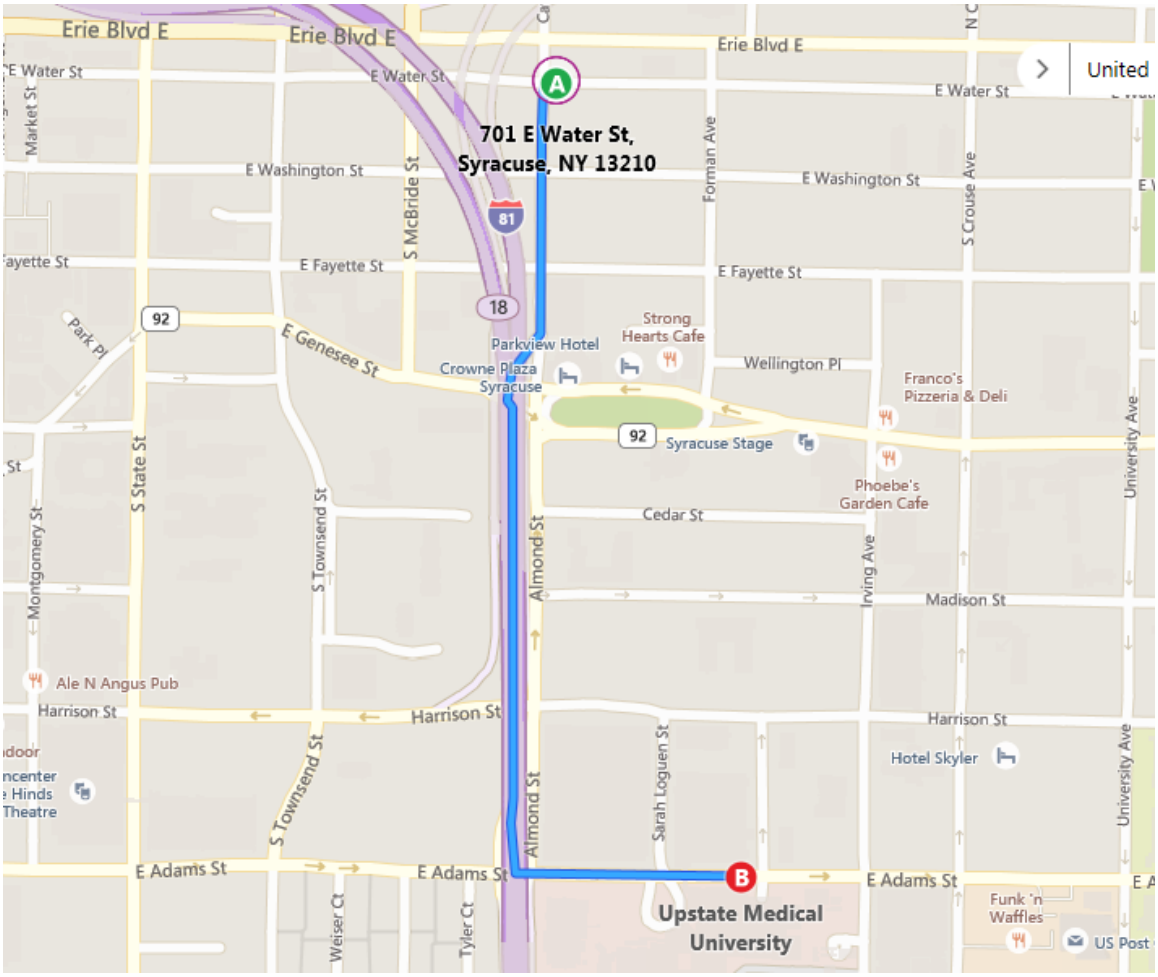
Directions to the Hospital:

1. Left (south) onto Almond Street
2. Veer right as roadway splits into a divided highway
3. Pass straight through E Genesee and Harrison Street intersections
4. Left onto East Adams Street
5. Destination on right in 0.2 miles

Total Distance: 0.7 miles

Total Estimated Time: 4 minutes

APPENDIX D - GENERAL SITE-SPECIFIC HEALTH AND SAFETY PLAN



APPENDIX E – COMMUNITY AIR MONITORING PLAN

APPENDIX E - COMMUNITY AIR MONITORING PROGRAM

E-1 INTRODUCTION

A Community Air Monitoring Plan (CAMP) requires real-time observation / monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and / or work shutdown.

Continuous monitoring will be required for all ground intrusive activities, including but not limited to, soil excavation and handling, trenching, and the installation of monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap, monitoring during well baling/purging, and taking a reading prior to leaving a sample location.

E-2 VOC Monitoring, Response Levels and Actions

- VOCs will be monitored at the downwind perimeter of the immediate work area (i.e. – exclusion zone) on a continuous basis. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring of VOCs will be performed using a photo-ionization detector (PID), which will be calibrated daily. The PID will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below:
    - If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level half the distance to the nearest potential receptor or residential / commercial structure (but not less than 20 feet), is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shut down.

All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

E-3 Particulate Monitoring, Response Levels, and Actions

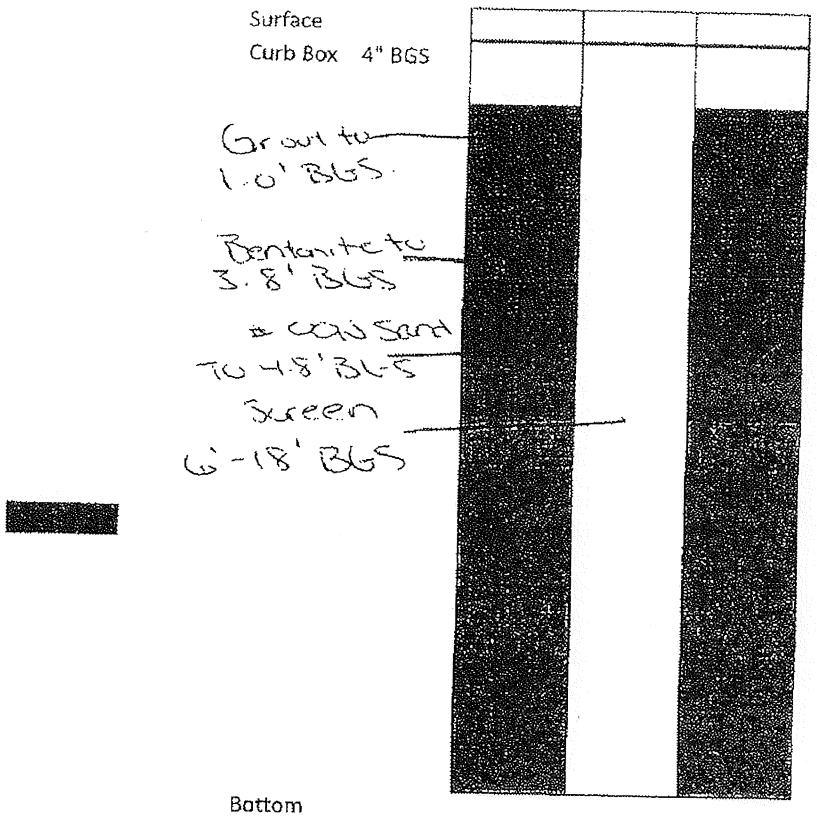
Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the work area or exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using a DUSTTRAK™ Aerosol Monitor Model 8520 (or similar). The device will be capable of measuring particulate matter less than 10 micrometers in size (PM-10), integrating over a period of 15 minutes for comparison to the airborne particulate action level, and equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level, and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m3 above the upwind level, work will be stopped and an evaluation of activities will be initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for NYSDEC and NYSDOH review.

APPENDIX F – MONITORING WELL CONSTRUCTION LOGS

~~MW-6~~ MW-5



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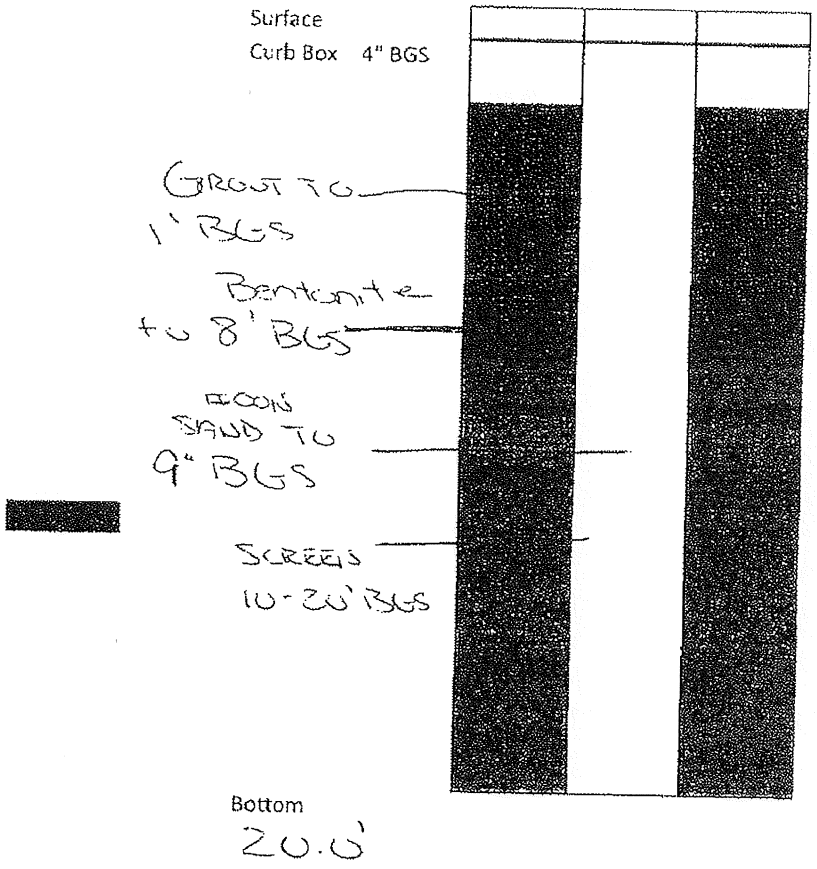
MW-7



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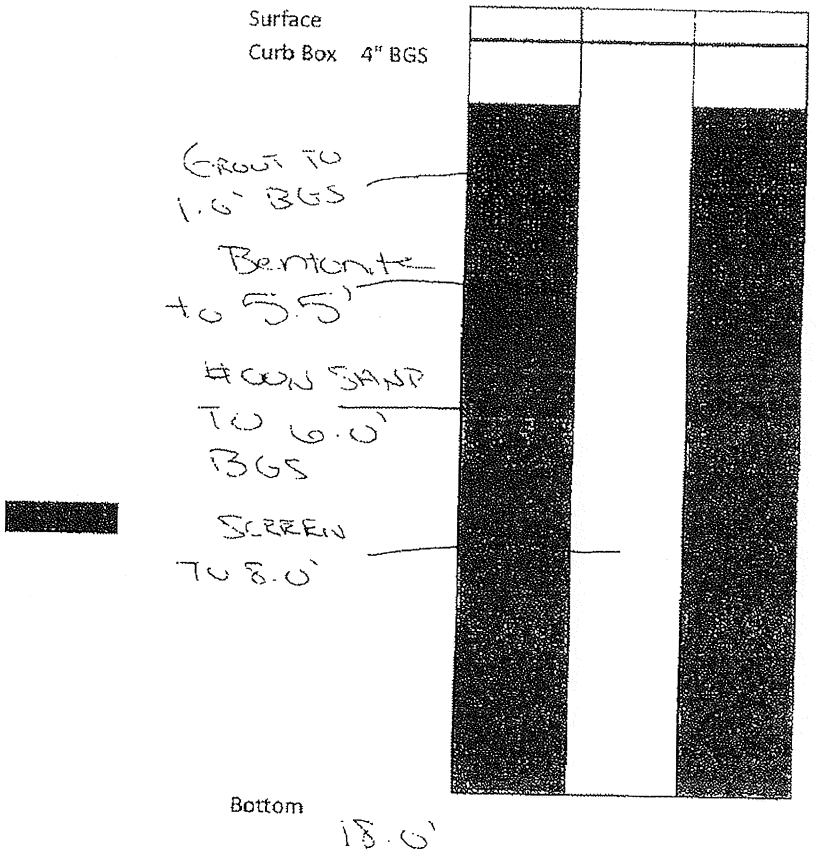

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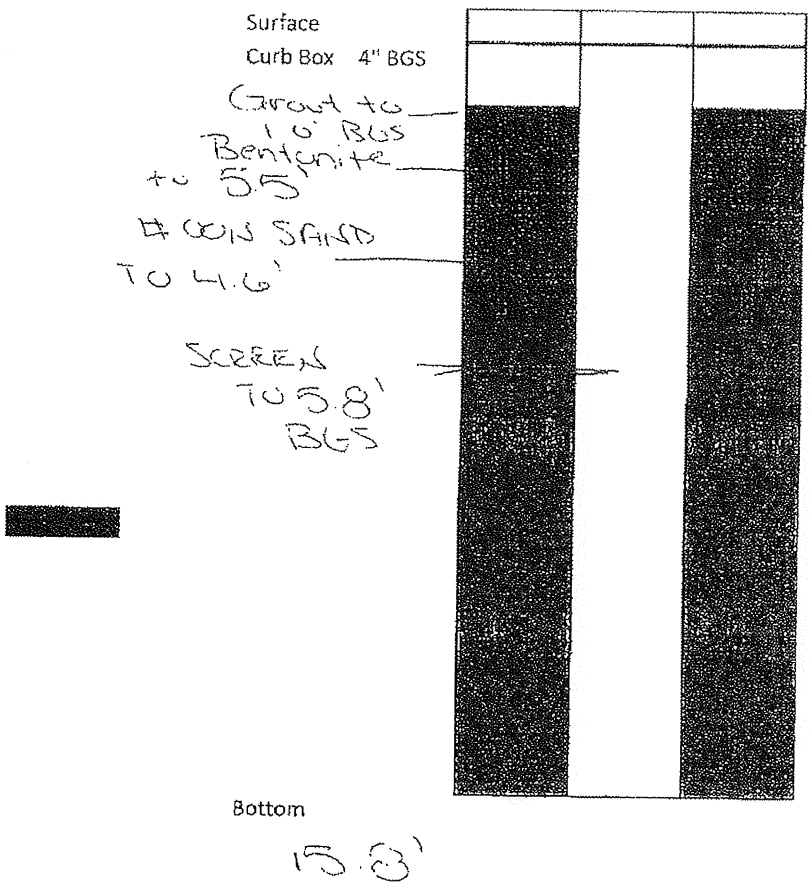

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APPENDIX G – FIELD SAMPLING PLAN

APPENDIX G – FIELD SAMPLING PLAN

G-1 Introduction

This Field Sampling Plan discusses the sampling procedures and methods to be used on the project for the collection of soil and groundwater samples for laboratory analysis. As described in the Site Management Plan (SMP) and Excavation Work Plan (Appendix A), construction activities will include the advancement of subsurface utility trenches, excavations for footers, etc. ~~In addition, four groundwater monitoring wells (MW-5, MW-7, MW-8, MW-9) will be periodically sampled as part of the Monitored Natural Attenuation remedy.~~

2022 Update: In addition, two groundwater monitoring wells (MW-8 and MW-9) will be periodically sampled as part of the Monitored Natural Attenuation remedy.

For the purposes of this SMP, we have added procedures associated with the installation of new groundwater monitoring wells (i.e. – soil borings) in case existing wells are damaged and need to be replaced.

Soil and groundwater samples that are collected for laboratory analysis will be delivered to the laboratory on a daily basis during the remedial and construction activities. The soil and groundwater sampling procedures are described in more detail below.

G-2 Sampling Objectives

Field sampling at the site will be designed to obtain representative samples of environmental media in an effort to assess the effectiveness of the MNA program, to properly characterize soils that are to be disposed off-site (or re-used on-site), and for verify that imported backfill meets the requirements stated in the SMP. The field sampling plan will include media sampling for groundwater and subsurface soils in areas of potential environmental concern.

G-3 Soil Sampling Procedures

Soil sampling at the site will be conducted in accordance with *USEPA Environmental Response Team SOP #2012, "Soil Sampling"*, attached to the end of this Appendix. In general, the following steps will be followed for the collection of subsurface soil samples (see Also Appendix G – QAPP):

1. For soil piles, samples will be collected utilizing a hand auger, disposable hand trowel, or stainless steel spoon (either with or without the assistance of a long-handled shovel to get to the required depth). For shallow trench wall samples, a disposable hand trowel or stainless steel spoon will be used to collect samples. For deeper trench wall and bottom samples, soil will be removed from the excavator bucket using a disposable hand

trowel or stainless steel spoon. For borings, a representative sample of cuttings will be collected using a disposable hand trowel or stainless steel spoon.

2. To minimize the volatization of VOCs, soil will first be placed into a dedicated jar and sealed. Additional soils will then be placed into dedicated jars for SVOCs and sealed. The soil samples will then be appropriately labeled for analysis (though it might not be analyzed based on results).

3. Thereafter, the remaining portion of the extracted soil will be placed into a glass jar, sealed with aluminum foil, and allowed to warm to ambient temperature. The seal on the jar will then be broken and the headspace in the jar will be measured with the PID. The jar will then be properly sealed and the PID results may be recorded. If the sample is to be analyzed at the laboratory, this soil jar will be appropriately labeled and submitted for metals analysis.

4. The label on each glass sample jar will identify the sample location, sample depth range, sampling date and time, and parameters to be analyzed.

G-4 Groundwater Sampling Procedures

~~During each periodic sampling event, BDA will collect one groundwater sample from Monitoring Wells MW-5, MW-7, MW-8, and MW-9 for laboratory analysis.~~

2022 Update: During each periodic sampling event, one groundwater sample will be collected from Monitoring Wells MW-8 and MW-9 for laboratory analysis.

In general, the following steps will be followed for the collection of the groundwater samples (see Also Appendix G – QAPP):

1. Using a peristaltic pump, each monitoring well will be purged using low-flow methodology. Thereafter, the representative will collect representative groundwater sample. Purged groundwater removed from each monitoring well will be dispensed into 5-gallon buckets, which will be subsequently transferred to 55-gallon drums, labeled corresponding to each monitoring well number. The drums will be temporarily stored at the site until the laboratory analyses have been completed to determine the appropriate discharge or disposal method.

2. A sufficient volume of groundwater will be collected from each monitoring well to fill dedicated vials/jars.

3. The label on each sample jar will identify the sample location, sampling date and time, and parameters to be analyzed.

APPENDIX G – FIELD SAMPLING PLAN

G-5 Sample Handling & Chain-of-Custody

Upon completion of the soil and groundwater sampling for a particular day, the following procedures will be followed (see Also Appendix G – QAPP):

1. The sealed, labeled samples of soil and groundwater will be carefully packed into a cooler refrigerated with ice or ice packs for delivery to the laboratory for analysis.
2. Packing material may be placed around the sample jars inside the cooler to minimize the potential for sample container breakage that could occur during sample handling and delivery to the laboratory.
3. A chain-of-custody form will be properly completed, signed, and dated by all persons responsible for collection and delivery of the soil and groundwater samples.
4. The chain-of-custody form will be placed into a zip-loc plastic bag, sealed, and placed inside the cooler to accompany the soil and groundwater samples from the time of collection until delivery to the laboratory within 24 hours from the time of collection.

G-6 General Decontamination

The following procedures will be performed to decontaminate exploration equipment, sampling equipment, and personnel after each excavation/sampling event:

Drill rig, backhoe, and excavator – The drill rig, backhoe, and/or excavator will be steam-cleaned prior to their entrance and exit of the site. Greases and oils will not be used on any down-hole equipment during drilling or exploration activities.

Exploration equipment – To avoid cross-contamination, cleaning between each sampling site will be employed on backhoe arms, buckets, and appurtenant equipment.

Drilling Equipment – The down-hole drilling equipment (spilt spoons, augers, etc.) will be scrubbed, cleaned, and put through a series of rinses between each borehole, and at the end of the sampling event.

Reusable equipment – The sampling equipment will be properly disposed or decontaminated in accordance with *USEPA Environmental Response Team SOP #2006, "Sampling Equipment Decontamination"*, attached to the end of this Appendix. The following steps will be employed to decontaminate other reusable equipment:

- Rinse equipment of soil or foreign material with potable water
- Immerse and scrub equipment with bio-degradable phosphate-free detergent and potable water
- Immerse and scrub in a potable water rinse without detergent

- Immerse and scrub in deionized/distilled water
- Saturate by spraying or immersion in laboratory-grade hexane.
- Air dry and wrap cleaned equipment in foil before transfer to next monitoring site to prevent contamination of equipment during transfer.
- The decontamination wash and rinse water will not be considered hazardous unless visual inspection or monitoring by the PID indicate that significant concentrations of contaminants may be present. The rinse waters will be placed in sealed 55-gallon drums. The drums will be temporarily stored at the site until the laboratory analyses have been completed to determine the appropriate discharge or disposal method.

Disposable equipment – Disposable equipment will be placed in a dedicated container for contaminated solids.

Sample containers – Upon filling and capping sample bottles, the outside of the bottle will be wiped off with a clean paper towel. These towels will be disposed of in a dedicated container for contaminated solids.

Personnel decontamination – Personnel will be required to follow procedures outlined in the Health and Safety Plan (see Appendix D).

G-7 Sample Identification

Samples of soil and groundwater will be identified and labeled to include the site name, the sample location, and the sampling time and date. The following alphanumeric system will be used to identify each sample and will correspond with the sample location to be identified on a field-generated sampling diagram:

Sample Type	Location No. +	Sample No. +	Depth +	Date =	Label/ID
Soil Pile	SP-01, 02…	C1, C2, G1 *...	N/A	N/A	SP-01-C1
Trench	T-01, 02…	N Wall, Bottom	N/A	N/A	T-01-NWall
Soil Boring (no well)	SB-8, 9…	N/A	(#- #')	N/A	SB-8 (4-6')
Soil Boring (well)	MW-10, 11…	N/A	(#- #')	N/A	MW-10 (4-6')
Groundwater	MW-5, 7…	N/A	N/A	Yes	MW-5 (2017-01-15)

**C = Composite Sample, G = Grab Sample*

Duplicate samples of soil and groundwater will include an upper-case letter "D" as a suffix to the sample number (i.e., MW-5 (2017-01-15)D, SB-8 (4-6')D, etc.).

APPENDIX H – GROUNDWATER MONITORING WELL SAMPLING LOG

AECC ENVIRONMENTAL CONSULTING

Well ID:

Low Flow Groundwater Sample Collection Record

Client: _____ Date: _____ Time: Start _____ am/pm
Project No: _____ Finish _____ am/pm
Site Location: _____
Weather Conds: _____ Collector(s): _____

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column 0 (a-b) Casing Diameter/Material

b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used: Make Model Serial Number

_____
_____

Time (24hr)	Volume Remove (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

(continued on back)

If no or N/A - Explain below.

_____

3. SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time

Comments _____

Signature _____ Date _____

Time (24hr clock)	Volume Removed (~gallons)	Temperature (°C)	pH	Spec. Cond. (mS/cm)	Dissolved Oxy. (DO) (mg/L)	Ox. Red. Potential (ORP) (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Sheen?	Odor?

Additional Notes:

APPENDIX I – QUALITY ASSURANCE PROJECT PLAN

APPENDIX I - QUALITY ASSURANCE PROJECT PLAN

I-1 INTRODUCTION

This section describes the manner in which Quality Assurance Project Plan (QAPP) will be implemented during remedial action activities. QAPP procedures will assure the accuracy and precision of the data collection during the project. Guidance for the selection of QAPP objectives was obtained from NYSDEC's *DER-10 Technical Guidance for Site Investigation and Remediation* (May 2010).

Quality Assurance (QA) refers to the conduct of all planned and systematic actions necessary to perform satisfactorily all task-specific activities and to provide information and data confidence as a result of such activities. The QA for task-specific activities includes the development of procedures, auditing, monitoring, and surveillance of the performance. Quality Control (QC) refers to the activity performed to determine if the work activities conform to the requirements. This includes activities such as inspections of the work activities in the field. QA is an overview monitoring of the performance of QC activities through audits rather than first time inspections.

I-2 PROJECT TEAM

Members of the project team for this Site Management Plan (SMP) include the following:

~~**Team Member**~~	~~**Organization**~~	~~**Telephone**~~	~~**Role/Title**~~
~~Brian St. Laurent~~	~~700 Out Parcel, LLC~~	~~315-471-7400~~	~~Owner Contact~~
~~Christopher Mannes~~	~~NYSDEC~~	~~315-426-7515~~	~~NYSDEC Contact~~
~~Richard Jones~~	~~NYSDOH~~	~~315-477-8148~~	~~NYSDOH Contact~~
~~Richard McKenna~~	~~AECC~~	~~315-432-9400~~	~~Project Manager~~
~~Bryan Airel~~	~~AECC~~	~~315-432-9400~~	~~HSO and QAPP Officer~~

APPENDIX I - QUALITY ASSURANCE PROJECT PLAN

2022 Update: *Members of the project team for this Site Management Plan (SMP) include the following:*

Team Member	***Organization***	***Telephone***	***Role/Title***
Brian St. Laurent	*700 Out Parcel, LLC*	*315-471-7400*	*Owner Contact*
Christopher Mannes	*NYSDEC*	*315-426-7515*	*NYSDEC Contact*
Stephen Lawrence	*NYSDOH*	*315-477-8148*	*NYSDOH Contact*
Richard McKenna	*NEU-VELLE, LLC*	*315-345-1649*	*Project Manager*
Al Lyons, P.E.	*NEU-VELLE, LLC*	*(585) 313-9683*	*Engineer-of-Record and QAPP Officer*
Mary Ellen Holvey	*NEU-VELLE, LLC*	585-690-3361	*Health & Safety Officer*

On behalf of 700 Out Parcel, LLC, NEU-VELLE, LLC will be responsible for coordinating and performing the monitoring events, interpretation of analytical data, and reporting. Project direction and assistance will be provided by 700 Out Parcel, LLC, NYSDEC, and NYSDOH.

I-3 KEY PERSONNEL

Key personnel anticipated for this project are as follows:

~~*Richard McKenna, Project Manager* – Mr. McKenna will act as the primary point of contact for the project, and will be responsible for the overall management and coordination of remedial actions at the Site.~~

~~*Bryan Airel. HSO and QAPP Officer* – Mr. Airel will be responsible for ensuring that the HASP is implemented during remedial actions, and will work with Mr. McKenna to ensure that QAPP objectives for the project are maintained.~~

2022 Update:

Richard McKenna, Project Manager – Mr. McKenna will act as the primary point of contact for the project, and will be responsible for the overall management and coordination of remedial actions at the Site.

Albert Lyons, Jr., P.E., Engineer of Record and QAPP Officer – Mr. Lyons will be responsible for certifying that the work performed at the Site adhered to BCP-approved SMP and ensure that QAPP objectives for the project are maintained.

Mary Ellen Holvey, Health & Safety Officer – Ms. Holvey will be responsible for ensuring that the HASP is implemented during on-site activities.

I-4 SUBCONTRACTORS

During the remedial action, several subcontractors will be utilized to perform project tasks. These include an environmental drilling contractor to install groundwater monitoring wells and other sampling points to monitor environmental media (as needed), an environmental laboratory to analyze soil and groundwater samples. A qualified data validator will be retained to prepare Data Usability Summary Reports as required, and a remedial contractor will be utilized to conduct excavation activities in identified areas and emplace clean fill / cover materials. Additionally, a licensed land surveyor may be retained for determining location and / or elevation data associated with excavations, monitoring wells, sample locations, etc.

I-5 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) are statements that describe the desired quality of data necessary to meet the objectives of the sampling program. The DQOs for the project were prepared in anticipation of the various media that would require sampling for laboratory analysis. DQO Forms have been completed for each type of sampling media and are located in Appendix C. The DOQ forms include information on the type of media sampled, the intended use of the data being collected, the type of analyses that will be requested, the level of analytical methodology and documentation required, sampling procedures, and the type of QAPP field samples that will be collected in support of the project. The sections of the DQO forms are described below.

Sampled Media – This section describes the material that is being sampled (groundwater, soil, surface water, waste material, etc.).

Data Use – This section is used to indicate the intended purpose of the sampling and analytical data. (i.e., for site characterization, evaluation or remedial alternatives, risk assessment, monitoring of existing sampling points, or waste characterization, etc.).

Data Type – This section identifies the compounds / analytes that samples collected during the program will be analyzed for. Also indicates whether field parameters such as pH, specific conductivity, temperature and turbidity will be monitored during sample collection.

Level of Analysis - this section identifies the level of analytical support required of the samples collected for a specific purpose as described below:

Level I: Field Screening - This level is characterized by the use of portable type instruments that provide real-time data.

Level II: Field Analysis - This level is characterized by the use of portable analytical instruments in an on-site lab or transported to the site. This section identifies the field analysis to be used.

Level III: Standard Analytical Protocols -This level may include standard analytical protocols in accordance with NYSDOH Environmental Laboratory Approval Program (ELAP) certification requirements, without the NYSDEC Analytical Services Protocol (ASP) Category B QAPP and deliverables / reportables documentation.

Level IV: NYSDEC ASP Reportables / Deliverables - This level is characterized by rigorous QAPP NYSDEC ASP protocols and Category B reportable / deliverable documentation that is suitable for data validation.

Sampling Procedures – This section provides information on sampling procedures to be used in sample collection, or provides directions to where to find this information in the project plans.

Data Quality Factors – This section describes factors that influence the quality or quantity of data to be collected. Primary contaminants and associated levels of concern are identified concerning ARARs or potential risks. The required detection limits are also given or referenced. *QAPP Samples* - This section indicates additional samples to be collected to support QA/QC procedures. Additional samples to be collected include:

- Matrix Spike / Matrix Spike Duplicates – Matrix spike duplicate samples are collected as a duplicate sample, to which the analytical laboratory will add known amounts of analyte. These QA/QC samples are intended to assess the extraction procedure used by the laboratory.

- Field Blanks – Field (equipment) blanks are samples that are obtained by running analyte-free water through or over the sample collection equipment in a way that is identical to the sample collection procedures. Field blanks may be used during QA/QC procedures to evaluate if sampling equipment has contributed contaminants to the samples.

- Trip Blanks – Trip blanks are samples that are prepared prior to the sampling event in the same type of sample container and are kept with the collected samples throughout the sampling event. Trip blank vials are not opened in the field and are analyzed for volatile organics only, and trip blanks are only collected when the sampling program includes aqueous samples that are being analyzed for VOCs.

- Duplicate samples – Duplicate sample analysis is used to determine reproducibility or consistency in the method. Duplicates (or split samples) are two samples taken from the same source, digested, distilled or otherwise processed, and then analyzed identically.

APPENDIX I - QUALITY ASSURANCE PROJECT PLAN

I-6 SAMPLING PROCEDURES

The Remedial Action Work Plan (RAWP) was developed under the assumption that site redevelopment will consist of the construction of a commercial building with ancillary asphalt parking and landscaping. Therefore, sampling objectives and procedures for soil, groundwater, and soil vapor sampling have been designed to allow for the acquisition of accurate and precise data for the following purposes:

- Waste profiling of excavated soil for offsite disposal;
- Verification of certified clean fill / cover soil importation;
- Groundwater monitoring; and
- Sub-slab vapor mitigation system monitoring.

I-6-1 Soil Sampling Procedures

Soil samples will be collected for waste profiling purposes. It is assumed that the receiving landfill will require laboratory analysis for hazardous characteristics and VOCs, SVOCs, and metals via Toxic Characteristic Leaching Procedure (TCLP). Representative soil samples will be acquired from the staged soil piles in at a frequency in accordance with NYSDEC Commissioner's Policy 51 (CP-51). To minimize the volatilization of VOCs, the sampling technician will place the sample into a dedicated jar and seal it. Additional soils will be placed into dedicated jars for SVOCs and sealed. The soil samples will then be labeled for analysis (although subsequent field analysis using a photo-ionization detector (PID) may cause the exclusion of certain samples from analysis at the laboratory). Thereafter, the remaining portion of the extracted soil will be placed into a glass jar, sealed with aluminum foil, and allowed to warm to ambient temperature. The seal on the jar will then be broken and the headspace in the jar will be measured with the PID meter. The jar will then be properly sealed and the headspace PID readings recorded. This soil sample will be appropriately labeled and submitted for metals analysis (although field results may cause the exclusion of certain samples from analysis at the laboratory).

Clean fill and / or cover soil samples will be acquired at the source location by a sampling technician and submitted to the analytical laboratory for VOC, SVOC, and metals analyses. Additionally each supplier of fill / cover soil, or the owner of the source of the material will be required to provide an affidavit certifying that the material does not come from a NYSDEC-listed contaminated site or a site that is suspected of being contaminated.

Samples will be carefully packed into a cooler refrigerated with ice / gel packs for delivery to the laboratory for analysis. Packing material will be placed around the sample containers to minimize the potential for breakage. A chain-of-custody (COC) form will be completed, signed

and dated by all persons responsible for collection and delivery of the samples. The COC form will be placed into a sealable plastic bag, sealed, and then placed into the cooler.

I-6-2 Groundwater Sampling Procedures

In order to verify that no significant increase in groundwater contamination occurs following the implementation of Remedial Alternative 4, samples of groundwater will be periodically acquired from wells at the Site and one off-site (hydraulically downgradient) location. Samples will be collected using the following steps:

- The sampling technician will remove the well cap and, using a PID, test for VOC vapors immediately above well riser pipe. The PID reading will recorded in the field logbook. This procedure will then be performed at each well to be sampled.
- Using a peristaltic pump, each monitoring well will be purged utilizing low-flow techniques. A metering device will be used to monitor field parameters as listed below. Only after the meter readings indicate that the following acceptance criteria (USEPA EQASOP- GW 001, Rev. 3, updated January 19, 2010) have been achieved will the sample be collected:
  - *groundwater turbidity (10% for values >5 NTU)*
  - *temperature (3%)*
  - *pH (+ 0.1 unit)*
  - *specific conductance (3%)*
  - *dissolved oxygen (10% for values >5mg/L)*
  - *Oxygen/Reduction Potential (+ 10 millivolts)*
- Purged groundwater will be placed into a 55-gallon drum which will be labeled and temporarily stored on-site.
- A sufficient volume of groundwater will be collected from each well to fill dedicated vials/jars.
- The label on each sample jar will identify the sample location, date and time, and parameters to be analyzed.

Samples will be carefully packed into a cooler along with ice / gel packs for delivery to the laboratory. Packing material will be placed around the sample containers to minimize the potential for breakage. A chain-of-custody (COC) form will be completed, signed and dated by all persons responsible for collection and delivery of the samples. The COC form will be placed into a sealable plastic bag, sealed, and then placed into the cooler.

APPENDIX I - QUALITY ASSURANCE PROJECT PLAN

I-6-3 Soil Vapor Sampling Procedures

The RAWP includes the installation of a sub-slab vapor mitigation system in a future on-site commercial building. The details regarding sub-slab vapor and system exhaust sampling will be provided in the Operation and Maintenance (O&M) Plan for the system.

I-7 LABORATORY COORDINATION

Laboratory coordination will be conducted under the direction of the project-specific QAPP officer. The laboratory utilized for laboratory analysis required under this project will be certified under the NYSDOH Environmental Laboratory Approval Program (ELAP) and will be required to maintain this certification for the duration of the program. The laboratory will be capable of producing ASP Category B deliverables, as needed for subsequent data validation / data usability evaluation purposes.

I-8 ANALYTICAL METHODOLOGIES

The following criteria will describe the appropriate methodologies for extraction, digestion, and analysis of the previously listed matrices. The specific VOCs, SVOCs, and TAL metals to be identified, along with the Contract Required Quantitation Limits, are listed in Appendix D.

Parameter Group	*Analytical Method*
TCL VOCs	USEPA Method 8260B
TCL SVOCs	USEPA Method 8270C
TAL Metals	USEPA Method 6010, 7470/7471 (Hg)

All analyses will be performed by SW-846 methodologies with QAPP guidelines of 2005 ASP Category B. Note that samples collected for waste characterization / disposal purposes will be analyzed in accordance with the appropriate SW-846 methodologies, for the parameters required by the disposal facility. Category B deliverables will not be requested for these samples:

~~*Groundwater Samples* – Groundwater samples collected for monitoring purposes under this SMP will be analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semi-VOCs (SVOCs), and TAL metals. Groundwater samples will also be analyzed for a select, limited group of field parameter analyses, including pH, specific conductance, temperature, and turbidity.~~

APPENDIX I - QUALITY ASSURANCE PROJECT PLAN

2022 Update:

Groundwater Samples – Groundwater samples collected for monitoring purposes under this SMP will be analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), iron, and manganese. Groundwater samples will also be analyzed for a select, limited group of field parameter analyses, including pH, specific conductance, temperature, and turbidity.

Trip Blanks – Trip blanks will accompany each shipment of aqueous samples for VOC analysis. Trip blanks are not necessary for soil samples. If several samples are collected for VOC analysis on any one day, all VOC samples will be packed in the same cooler with the trip blank.

Matrix Spike / Matrix Spike Duplicates – Duplicate samples will be obtained from groundwater samples used for monitoring purposes. A frequency of one matrix spike / matrix spike duplicate (MS / MSD) sample for every 20 groundwater samples collected during a given sampling event.

Analytical Quality Control – As stated previously, analytical quality for samples collected for site characterization or monitoring purposes will be in accordance with NYSDEC ASP Category B. Analysis in accordance with NYSDOH ELAP certification requirements may be used for samples collected for waste characterization or disposal purposes. The following holding times will be required from the contracted analytical laboratory, regardless of sample matrix:

Parameter	*Task*	*Holding Time (from collection)*
VOCs	Analysis	14 Days
~~SVOCs~~	~~Extraction~~	~~7 days~~
	~~Analysis~~	~~40 days~~
Metals	Analysis	180 days
~~Mercury~~	~~Analysis~~	~~28 days~~

2022 Update:

SVOCs and mercury analyses no longer apply.

Reportables and Deliverables Documentation – The analytical data for site characterization and monitoring purposes will be presented in NYSDEC ASP Category B reportables / deliverables format.

Data Usability and Acceptability – Because the investigation will produce data to be used for characterizing or monitoring environmental conditions at the Site, the validity of the data generated will be evaluated. Such data will be evaluated by a data usability subcontractor that will be responsible for determining the usability and acceptability of the analytical data. The data usability review effort shall be consistent with NYSDEC-DUSR Guidance and a Data Usability Summary Report (DUSR) will be signed by the person completing the review.

APPENDIX J – SITE-WIDE INSPECTION FORM

ANNUAL / SEVERE CONDITION SITE INSPECTION FORM

Site Name: 700 Outparcel
Address: 701-709 East Water Street
Syracuse, New York
Tax ID: Section 30, Block 14 - Lots 1.0 & 2.0
Area: 0.43± acres
NYSDEC Site #: C734111

Inspection Date: _____

Weather During Inspection:
Temperature: _____ °F
Conditions: _____

Description of Engineering Control(s) to be Inspected:

Cover System: One foot of crusher run gravel over an orange fabric demarcation barrier within fenced area. Strips of asphalt pavement outside of fenced area along the northern and eastern borders (municipal sidewalk and U-Haul parking lot). The site/cover is used for vehicular parking.

Conditions:
Describe deficiencies/remedies in the Comments section, and mark up Site Plan on Page 2 as needed

- ☐ Walk and inspect the perimeter of the Site, including the areas outside the fenced area
- ☐ Walk and inspect the cover system within the fenced area

1.	Has there been a change in use of the Site?	Y	N
2.	Has any material been removed?	Y	N
3.	Has anything been constructed on the Site?	Y	N
4.	Are there any signs of significant settlement or deterioration of the cover?	Y	N
5.	Are there any signs of erosion?	Y	N
6.	Is the cover material being tracked onto adjacent sidewalks/streets by vehicular traffic?	Y	N
7.	Has the cover material sloughed onto adjacent sidewalks or parking lots?	Y	N
8.	Are there any signs of intrusive activities (drilling, excavation, etc.)?	Y	N
9.	Are there signs that snow plowing has altered the surface of the cover?	Y	N
10.	Is the perimeter fence damaged?	Y	N
11.	Is the demarcation barrier visible in any locations?	Y	N
12.	Is any staining of the cover material visible (vehicle leaks, etc.)?	Y	N
13.	Are the flush-mounted protective casings of the 6 monitoring wells damaged or compromised?	Y	N
14.	Are the covers of the 6 monitoring wells damaged or compromised?	Y	N
15.	Have previous recommended remedies/repairs been implemented?	N/A Y	N

Comments:
If an inspection identifies damage to the cover or wells, it shall be reported to the NYSDEC by noon the following business day (if an emergency) or within 5 business days (if a non-emergency)

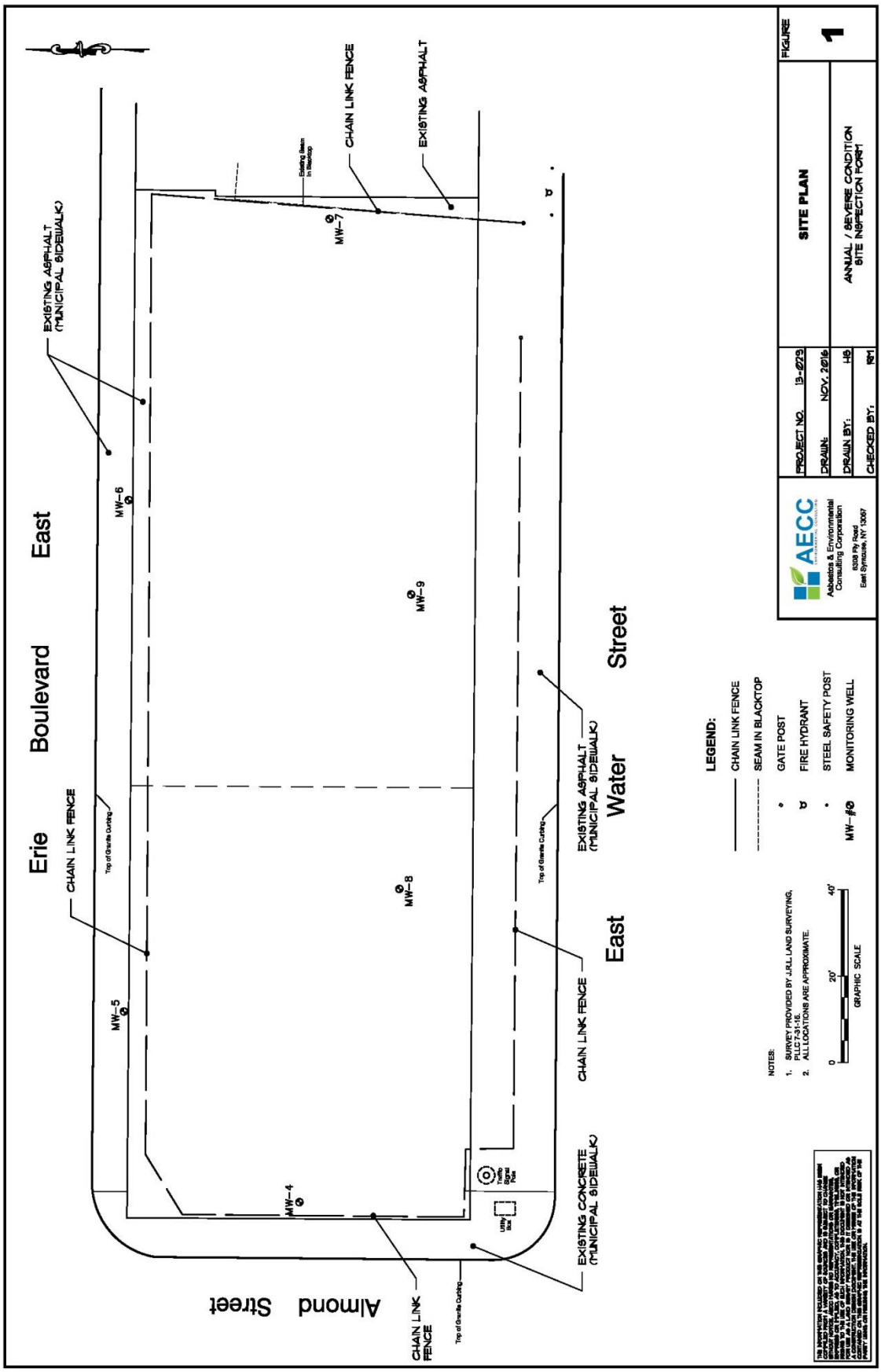
Attachments:

Photographs:	Y	N
Other (Describe):	Y	N

Name of Inspector (Print): _____

_____ _____
Signature of Inspector (Environmental Professional) **Date**

ANNUAL / SEVERE CONDITION SITE INSPECTION FORM



APPENDIX B
SITE INSPECTION FORM

ANNUAL / SEVERE CONDITION SITE INSPECTION FORM

Site Name: 700 Outparcel
Address: 701-709 East Water Street
Syracuse, New York
Tax ID: Section 30, Block 14 - Lots 1.0 & 2.0
Area: 0.43± acres
NYSDEC Site #: C734111

Inspection Date: 02/15/2024

Weather During Inspection:
Temperature: 29 °F
Conditions: partly cloudy/snowing

Description of Engineering Control(s) to be Inspected:

Cover System: One foot of crusher run gravel over an orange fabric demarcation barrier. Strips of asphalt pavement/concrete sidewalks outside of Site along the borders (municipal sidewalk and U-Haul parking lot). The site/cover is used for vehicular parking.

Conditions:

☒ Walk and inspect the perimeter of the Site, including the areas outside the Site
☒ Walk and inspect the cover system within the Site

1.	Has there been a change in use of the Site?	Y		[N]
2.	Has any material been removed?	Y		[N]
3.	Has anything been constructed on the Site?	Y		[N]
4.	Are there any signs of significant settlement or deterioration of the cover?	Y		[N]
5.	Are there any signs of erosion?	Y		[N]
6.	Is the cover material being tracked onto adjacent sidewalks/streets by vehicular traffic?	Y		[N]
7.	Has the cover material sloughed onto adjacent sidewalks or parking lots?	Y		[N]
8.	Are there any signs of intrusive activities (drilling, excavation, etc.)?	Y		[N]
9.	Are there signs that snow plowing has altered the surface of the cover?	Y		[N]
10.	Is the demarcation barrier visible in any locations?	Y		[N]
11.	Is any staining of the cover material visible (vehicle leaks, etc.)?	Y		[N]
12.	Are the flush-mounted protective casings of the monitoring wells damaged or compromised?	Y		[N]
13.	Have previous recommended remedies/repairs been implemented?	N/A	[Y]	N

Comments:

MW-9 has a broken bolt thread, due to this face, the bolt was not able to be secured to the ring. All other wells were in good shape other than MW-7, which was lost/damaged during site paving.

Attachments:

Photographs:	[Y]	N
Other (Describe):	Y	N

Name of Inspector (Print): Bridget Connolly

Bridget Connolly

Signature of Inspector (Environmental Professional)

2/15/2024

Date

APPENDIX C
INSPECTION PHOTO LOG

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

Photo of paved area where MW-7 was located. MW-7 is presumed to be destroyed/not viable.

Photo of paved area where MW-7 was located. MW-7 is presumed to be destroyed/not viable.

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

Photo of site cover system.

APPENDIX D
IC/EC CERTIFICATION FORMS

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C734111

Site Name 700 Out Parcel, LLC

Site Address: 701-709 East Water Street Zip Code: 13202
City/Town: Syracuse
County: Onondaga
Site Acreage: 0.440

Reporting Period: March 03, 2023 to March 03, 2024

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C734111 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
030-14-01.0	700 Out Parcel, LLC c/o Woodbine Group	IC/EC Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan

Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

•allows the use and development of the controlled property for commercial as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

•restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

•requires compliance with the Department approved Site Management Plan.

030-14-02.0	700 Out Parcel, LLC c/o Woodbine Group	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan Landuse Restriction IC/EC Plan

Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

•allows the use and development of the controlled property for commercial as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

•restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

•requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
030-14-01.0	Cover System

A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

030-14-02.0	Cover System

A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C734111

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Valentina Smith (print name) at AMERCO Real Estate Company (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Valentina Smith
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

3/11/24
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I David Lent,PG (print name) at PSG Engineering and Geology DPC (print business address),
Qualified Environmental Professional
am certifying as a ~~Professional Engineer~~ for the Owner
(Owner or Remedial Party)

03/05/2024

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

APPENDIX E
GROUNDWATER LOW FLOW SAMPLING LOGS

GROUNDWATER FIELD SAMPLING RECORD - LOW-FLOW PURGING AND SAMPLING
PARTNER ENGINEERING AND SCIENCE, INC. (NJ Lab Cert# 13037)

GENERAL INFORMATION:

DATE:	2/15/2024	PINE (Cert #11034) HORIBA ID # :	
PROJECT NAME:	Syracuse, NY	WELL NUMBER:	MW-5
JOB #:	21-340263	WELL DIAMETER:	2in
LOCATION:	701-709 Water Street East	WELL PERMIT #:	
SAMPLING PERSONNEL:	BC	SCREENED INTERVAL:	6-16
PROJECT MANAGER:	DL	WEATHER:	30s cloudy

INITIAL WELL MEASUREMENTS:

PID (ppm): Annular Space	0.0
PID (ppm): Head Space	0.0
*DEPTH TO PRODUCT (ft):	N/A
*DEPTH TO WATER (ft):	11.17
TOTAL WELL DEPTH (ft):	18
FREE PRODUCT (inches):	N/A
WATER COLUMN HEIGHT (ft):	

^ Pre-populate well depth. Do not measure depth in field.

WELL PURGING:

PUMP TYPE:	peristaltic
PUMPING DEPTH (ft):	16
PURGE TIME START:	1435
PURGE TIME STOP:	1455
PURGING TIME (min):	20
GALLONS PURGED:	2
PUMP RATE (mL/min):**	200

** Pump rate should be between 200 to 500 mL/ min. during purging (~3.2 - 7.9 gph)

PARAMETERS MEASURED DURING PURGING:

** Well is ready for sampling after indicator parameters have stablized for three consecutive readings **

TIME	I/S/F/*	TEMPERATURE (degrees C) +/- 3%		pH (pH units) +/- 0.1		CONDUCTIVITY (mS/cm) +/- 3%		REDOX (ORP) (mv) +/- 10 mV		TURBIDITY (NTU) +/- 10%		DO (mg/l) +/- 10%		DEPTH TO WATER (ft below PVC) +/- 0.3 ft	
		READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE
1435	I	10.11	N/A	7.09	N/A	9.33	N/A	90	N/A	14.7	N/A	6.25	N/A	11.70	N/A
1440		10.25	0.14	7.13	0.04	9.52	0.19	94	4	8.2	6.5	5.20	1.05	12.00	0.30
1445		10.28	0.03	7.14	0.01	9.52	—	98	4	5.1	3.1	4.79	0.41	12.20	0.20
1450		10.01	0.21	7.13	0.01	9.518	0.04	100	2	6.6	1.5	4.72	0.07	12.85	0.25
1455		10.25	0.18	7.13	—	9.54	0.02	101	2	9.2	2.6	4.62	0.10	12.85	0.30

SAMPLING:

	SAMPLE 1	SAMPLE 2
SAMPLING START TIME:		
*DEPTH TO WATER (ft):		
PUMP RATE (mL/min):		
** Sampling pump rate should be the same as purging rate**		
SAMPLING STOP TIME:		
SAMPLE ID #:		
NO. OF CONTAINERS:		
PHYSICAL APPEARANCE:		
ODOR:		

FINAL MEASUREMENTS AFTER SAMPLING:

	SAMPLE 1	SAMPLE 2
TIME OF MEASUREMENT:		
TEMPERATURE (°C):		
pH:		
SPEC. COND. (mS/cm):		
ORP (mV):		
TURBIDITY (NTU):		
DISSOLVED OXYGEN (mg/l):		
*DEPTH TO WATER (ft):		
RECHARGE RATE (mL/min):		

TIME OF REFRIGERATION: __X__ IMMEDIATE ____ OTHER:

Legend:
* Depth to Groundwater from the surveyed top (highest point) of the PVC casing
** As per USEPA Region 2 GW sampling procedure, low flow purging and sampling
"I / S / F / *" Initial / Sampling / Final / Other
NM- Not Measured
NR - Reading not taken
EM - Equipment malfunction

COMMENTS:
no sample

GROUNDWATER FIELD SAMPLING RECORD - LOW-FLOW PURGING AND SAMPLING
PARTNER ENGINEERING AND SCIENCE, INC. (NJ Lab Cert# 13037)

GENERAL INFORMATION:

DATE:	2/15/2024	PINE (Cert #11034) HORIBA ID # :	
PROJECT NAME:	Syracuse, NY	WELL NUMBER:	MW-7
JOB #:	21-340263	WELL DIAMETER:	
LOCATION:	701-709 Water Street East	WELL PERMIT #:	
SAMPLING PERSONNEL:	BC	SCREENED INTERVAL:	
PROJECT MANAGER:	DL	WEATHER:	

INITIAL WELL MEASUREMENTS:

PID (ppm): Annular Space	
PID (ppm): Head Space	
*DEPTH TO PRODUCT (ft):	N/A
*DEPTH TO WATER (ft):	
TOTAL WELL DEPTH (ft):	
FREE PRODUCT (inches):	N/A
WATER COLUMN HEIGHT (ft):	

^ Pre-populate well depth. Do not measure depth in field.

WELL PURGING:

PUMP TYPE:	
PUMPING DEPTH (ft):	
PURGE TIME START:	
PURGE TIME STOP:	
PURGING TIME (min):	
GALLONS PURGED:	
PUMP RATE (mL/min):**	

** Pump rate should be between 200 to 500 mL/ min. during purging (~3.2 - 7.9 gph)

PARAMETERS MEASURED DURING PURGING:

** Well is ready for sampling after indicator parameters have stabilized for three consecutive readings **

TIME	I / S / F / *	TEMPERATURE (degrees C) +/- 3%		pH (pH units) +/- 0.1		CONDUCTIVITY (mS/cm) +/- 3%		REDOX (ORP) (mv) +/- 10 mV		TURBIDITY (NTU) +/- 10%		DO (mg/l) +/- 10%		DEPTH TO WATER (ft below PVC) +/- 0.3 ft	
		READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE
			N/A		N/A		N/A		N/A		N/A		N/A		N/A

SAMPLING:

	SAMPLE 1	SAMPLE 2
SAMPLING START TIME:		
*DEPTH TO WATER (ft):		
PUMP RATE (mL/min):		
** Sampling pump rate should be the same as purging rate**		
SAMPLING STOP TIME:		
SAMPLE ID #:		
NO. OF CONTAINERS:		
PHYSICAL APPEARANCE:		
ODOR:		

FINAL MEASUREMENTS AFTER SAMPLING:

	SAMPLE 1	SAMPLE 2
TIME OF MEASUREMENT:		
TEMPERATURE (°C):		
pH:		
SPEC. COND. (mS/cm):		
ORP (mV):		
TURBIDITY (NTU):		
DISSOLVED OXYGEN (mg/l):		
*DEPTH TO WATER (ft):		
RECHARGE RATE (mL/min):		

TIME OF REFRIGERATION: __X__ IMMEDIATE ____ OTHER:

Legend:
* Depth to Groundwater from the surveyed top (highest point) of the PVC casing
** As per USEPA Region 2 GW sampling procedure, low flow purging and sampling
"I / S / F / *" Initial / Sampling / Final / Other
NM- Not Measured
NR - Reading not taken
EM - Equipment malfunction

COMMENTS:
well was paved over - not accessible

GROUNDWATER FIELD SAMPLING RECORD - LOW-FLOW PURGING AND SAMPLING
PARTNER ENGINEERING AND SCIENCE, INC. (NJ Lab Cert# 13037)

GENERAL INFORMATION:

DATE:	2/15/2024	PINE (Cert #11034) HORIBA ID # :	
PROJECT NAME:	Syracuse, NY	WELL NUMBER:	MW-8
JOB #:	21-340263	WELL DIAMETER:	2in
LOCATION:	701-709 Water Street East	WELL PERMIT #:	
SAMPLING PERSONNEL:	BC	SCREENED INTERVAL:	8-18
PROJECT MANAGER:	DL	WEATHER:	30s Cloudy

INITIAL WELL MEASUREMENTS:

PID (ppm): Annular Space	1.0
PID (ppm): Head Space	20.3
*DEPTH TO PRODUCT (ft):	N/A
*DEPTH TO WATER (ft):	12.04
TOTAL WELL DEPTH (ft):	18
FREE PRODUCT (inches):	N/A
WATER COLUMN HEIGHT (ft):	—

^ Pre-populate well depth. Do not measure depth in field.

WELL PURGING:

PUMP TYPE:	peristaltic
PUMPING DEPTH (ft):	16
PURGE TIME START:	1155
PURGE TIME STOP:	1225
PURGING TIME (min):	35
GALLONS PURGED:	2
PUMP RATE (mL/min):**	200

** Pump rate should be between 200 to 500 mL/ min. during purging (~3.2 - 7.9 gph)

PARAMETERS MEASURED DURING PURGING:

** Well is ready for sampling after indicator parameters have stabilized for three consecutive readings **

TIME	I/S/F/*	TEMPERATURE (degrees C) +/- 3%		pH (pH units) +/- 0.1		CONDUCTIVITY (mS/cm) +/- 3%		REDOX (ORP) (mv) +/- 10 mV		TURBIDITY (NTU) +/- 10%		DO (mg/l) +/- 10%		DEPTH TO WATER (ft below PVC) +/- 0.3 ft	
		READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE
1155	I	10.40	N/A	8.46	N/A	1.83	N/A	-88	N/A	23.1	N/A	3.62	N/A	13.87	N/A
1200		10.32	0.08	7.46	1.00	1.78	0.05	-88	—	23.1	—	1.17	2.45	16.62	0.80
1205		10.19	0.03	7.37	0.09	1.79	0.01	-86	2	19.1	4.0	0.99	0.18	16.70	0.08
1210		10.20	0.01	7.27	0.10	1.80	0.01	-87	1	12.9	6.2	0.73	0.26	16.77	0.07
1215		10.27	0.07	7.20	0.07	1.78	0.03	-87	—	13.2	0.3	0.61	0.12	16.80	0.03
1220	S														
1225	F	10.28	0.01	7.15	0.05	1.77	0.01	-87	—	12.3	0.9	0.50	0.11	16.80	0.0

SAMPLING:

	SAMPLE 1	SAMPLE 2
SAMPLING START TIME:	1220	
*DEPTH TO WATER (ft):	16.80	
PUMP RATE (mL/min):		
** Sampling pump rate should be the same as purging rate**		
SAMPLING STOP TIME:	1225	
SAMPLE ID #:	MW-8	
NO. OF CONTAINERS:	4	
PHYSICAL APPEARANCE:	clear	
ODOR:	Slight odors	

FINAL MEASUREMENTS AFTER SAMPLING:

	SAMPLE 1	SAMPLE 2
TIME OF MEASUREMENT:	1225	
TEMPERATURE (°C):	10.28	
pH:	7.15	
SPEC. COND. (mS/cm):	1.77	
ORP (mV):	-87	
TURBIDITY (NTU):	12.3	
DISSOLVED OXYGEN (mg/l):	0.50	
*DEPTH TO WATER (ft):	16.80	
RECHARGE RATE (mL/min):	—	

TIME OF REFRIGERATION: X IMMEDIATE ____ OTHER:

Legend:
* Depth to Groundwater from the surveyed top (highest point) of the PVC casing
** As per USEPA Region 2 GW sampling procedure, low flow purging and sampling
"I / S / F / *" Initial / Sampling / Final / Other
NM- Not Measured
NR - Reading not taken
EM - Equipment malfunction

COMMENTS:

Analyzed for TCL VOCs, Iron and Manganese

GROUNDWATER FIELD SAMPLING RECORD - LOW-FLOW PURGING AND SAMPLING
PARTNER ENGINEERING AND SCIENCE, INC. (NJ Lab Cert# 13037)

GENERAL INFORMATION:

DATE:	2/15/2024	PINE (Cert #11034) HORIBA ID # :	
PROJECT NAME:	Syracuse, NY	WELL NUMBER:	MW-9
JOB #:	21-340263	WELL DIAMETER:	2in
LOCATION:	701-709 Water Street East	WELL PERMIT #:	
SAMPLING PERSONNEL:	BC	SCREENED INTERVAL:	5.5-15.8
PROJECT MANAGER:	DL	WEATHER:	30s cloudy

INITIAL WELL MEASUREMENTS:

PID (ppm): Annular Space	0.0
PID (ppm): Head Space	0.0
*DEPTH TO PRODUCT (ft):	N/A
*DEPTH TO WATER (ft):	14.56
TOTAL WELL DEPTH (ft):	16.80^
FREE PRODUCT (inches):	N/A
WATER COLUMN HEIGHT (ft):	—

^ Pre-populate well depth. Do not measure depth in field.

WELL PURGING:

PUMP TYPE:	Peristaltic
PUMPING DEPTH (ft):	16
PURGE TIME START:	1320
PURGE TIME STOP:	1400
PURGING TIME (min):	40
GALLONS PURGED:	2.5
PUMP RATE (mL/min):**	200

** Pump rate should be between 200 to 500 mL/ min. during purging (~3.2 - 7.9 gph)

PARAMETERS MEASURED DURING PURGING:

** Well is ready for sampling after indicator parameters have stabilized for three consecutive readings **

TIME	I/S/F/*	TEMPERATURE (degrees C) +/- 3%		pH (pH units) +/- 0.1		CONDUCTIVITY (mS/cm) +/- 3%		REDOX (ORP) (mv) +/- 10 mV		TURBIDITY (NTU) +/- 10%		DO (mg/l) +/- 10%		DEPTH TO WATER (ft below PVC) +/- 0.3 ft	
		READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE	READING	CHANGE
1320	I	9.65	N/A	7.14	N/A	3.37	N/A	-63	N/A	300	N/A	3.13	N/A	15.34	N/A
1325		9.63	0.02	7.24	0.10	3.22	0.12	-60	1.3	301	1	2.44	0.69	15.34	—
1330		9.83	0.20	7.33	0.09	2.47	0.75	-46	14	320	19	2.32	0.12	15.42	0.08
1335		9.97	0.14	7.25	0.08	2.32	0.15	-27	17	329	9	1.88	0.44	15.35	0.07
1340		9.90	0.07	7.21	0.04	2.37	0.02	-25	4	3316	7	1.81	0.07	15.34	0.01
1345		9.85	0.05	7.15	0.06	2.44	0.10	-21	4	325	11	1.73	0.08	15.31	0.03
1350		9.90	0.05	7.12	0.03	2.54	0.10	-11	10	320	5	1.70	0.03	15.31	—
1355	S														
1400	F	9.92	0.02	7.10	0.02	2.63	0.09	-10	1	310	10	1.68	0.02	15.31	—

SAMPLING:

	SAMPLE 1	SAMPLE 2
SAMPLING START TIME:	1355	
*DEPTH TO WATER (ft):	15.31	
PUMP RATE (mL/min):		
** Sampling pump rate should be the same as purging rate**		
SAMPLING STOP TIME:	1400	
SAMPLE ID #:	MW-9	
NO. OF CONTAINERS:	4	
PHYSICAL APPEARANCE:	clear	
ODOR:	none	

FINAL MEASUREMENTS AFTER SAMPLING:

	SAMPLE 1	SAMPLE 2
TIME OF MEASUREMENT:	1400	
TEMPERATURE (°C):	9.92	
pH:	7.10	
SPEC. COND. (mS/cm):	2.63	
ORP (mV):	-10	
TURBIDITY (NTU):	310	
DISSOLVED OXYGEN (mg/l):	1.68	
*DEPTH TO WATER (ft):	15.31	
RECHARGE RATE (mL/min):	—	

TIME OF REFRIGERATION: X IMMEDIATE ____ OTHER:

Legend:
* Depth to Groundwater from the surveyed top (highest point) of the PVC casing
** As per USEPA Region 2 GW sampling procedure, low flow purging and sampling
"I / S / F / *" Initial / Sampling / Final / Other
NM- Not Measured
NR - Reading not taken
EM - Equipment malfunction

COMMENTS:

Analyzed for TCL VOCs, Iron and Manganese

APPENDIX F
LABORATORY REPORTS

ANALYTICAL REPORT

Lab Number:	L2408684
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	U-HAUL FACILITY #873067
Project Number:	ES21-340263
Report Date:	02/23/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2408684-01	MW-8	WATER	701-709 WATER ST E. SYRACUSE, NY	02/15/24 12:20	02/16/24
L2408684-02	MW-9	WATER	701-709 WATER ST E. SYRACUSE, NY	02/15/24 13:55	02/16/24
L2408684-03	DUP	WATER	701-709 WATER ST E. SYRACUSE, NY	02/15/24 12:35	02/16/24
L2408684-04	FIELD BLANK	WATER	701-709 WATER ST E. SYRACUSE, NY	02/15/24 13:00	02/16/24
L2408684-05	TRIP BLANK	WATER	701-709 WATER ST E. SYRACUSE, NY	02/14/24 00:00	02/16/24

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1886950-3/-4 MS/MSD recoveries for iron (180%/200%), performed on L2408684-01, do not apply because the sample concentration is greater than four times the spike amount added.

The WG1886950-4 MSD recovery, performed on L2408684-01, is outside the acceptance criteria for manganese (133%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 02/23/24

ORGANICS

VOLATILES

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-01
Client ID: MW-8
Sample Location: 701-709 WATER ST E. SYRACUSE, NY

Date Collected: 02/15/24 12:20
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/19/24 02:49
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.2		ug/l	0.50	0.16	1
Toluene	2.3	J	ug/l	2.5	0.70	1
Ethylbenzene	14		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-01 Date Collected: 02/15/24 12:20

Client ID: MW-8 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	5.3		ug/l	2.5	0.70	1
o-Xylene	6.2		ug/l	2.5	0.70	1
Xylenes, Total	12		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	24		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	1.9	J	ug/l	2.5	0.70	1
p-Isopropyltoluene	2.8		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-01 Date Collected: 02/15/24 12:20

Client ID: MW-8 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	2.8		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.0	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	51		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	6.6		ug/l	2.0	0.70	1
p-Ethyltoluene	4.6		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	18		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	70		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-02 Date Collected: 02/15/24 13:55

Client ID: MW-9 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 02/19/24 17:31

Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-02 Date Collected: 02/15/24 13:55

Client ID: MW-9 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-02 Date Collected: 02/15/24 13:55

Client ID: MW-9 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	1.9	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.91	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-03 Date Collected: 02/15/24 12:35

Client ID: DUP Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 02/19/24 01:43

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.3		ug/l	0.50	0.16	1
Toluene	2.9		ug/l	2.5	0.70	1
Ethylbenzene	22		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-03 Date Collected: 02/15/24 12:35

Client ID: DUP Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	7.1		ug/l	2.5	0.70	1
o-Xylene	7.0		ug/l	2.5	0.70	1
Xylenes, Total	14		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	23		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	2.6		ug/l	2.5	0.70	1
p-Isopropyltoluene	2.8		ug/l	2.5	0.70	1
Naphthalene	0.81	J	ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-03 Date Collected: 02/15/24 12:35

Client ID: DUP Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	3.8		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.2	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	59		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	6.6		ug/l	2.0	0.70	1
p-Ethyltoluene	4.7		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	19		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	71		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-04 Date Collected: 02/15/24 13:00
Client ID: FIELD BLANK Date Received: 02/16/24
Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/19/24 01:19
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-04 Date Collected: 02/15/24 13:00

Client ID: FIELD BLANK Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-04 Date Collected: 02/15/24 13:00

Client ID: FIELD BLANK Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-05
Client ID: TRIP BLANK
Sample Location: 701-709 WATER ST E. SYRACUSE, NY

Date Collected: 02/14/24 00:00
Date Received: 02/16/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 02/19/24 00:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-05 Date Collected: 02/14/24 00:00

Client ID: TRIP BLANK Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-05 Date Collected: 02/14/24 00:00

Client ID: TRIP BLANK Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/18/24 18:04
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1886881-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/18/24 18:04
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1886881-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/18/24 18:04
Analyst: MAG

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-05 Batch: WG1886881-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/19/24 10:30
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1887166-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/19/24 10:30
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1887166-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/19/24 10:30
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1887166-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1886881-3 WG1886881-4								
Methylene chloride	96		95		70-130	1		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	96		98		70-130	2		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	91		91		63-130	0		20
1,1,2-Trichloroethane	94		95		70-130	1		20
Tetrachloroethene	97		94		70-130	3		20
Chlorobenzene	97		96		75-130	1		20
Trichlorofluoromethane	100		89		62-150	12		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	97		97		67-130	0		20
trans-1,3-Dichloropropene	97		95		70-130	2		20
cis-1,3-Dichloropropene	93		94		70-130	1		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	89		86		54-136	3		20
1,1,2,2-Tetrachloroethane	97		96		67-130	1		20
Benzene	100		99		70-130	1		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		98		64-130	2		20
Bromomethane	74		71		39-139	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1886881-3 WG1886881-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	93		96		61-145	3		20
trans-1,2-Dichloroethene	100		91		70-130	9		20
Trichloroethene	97		96		70-130	1		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,3-Dichlorobenzene	99		97		70-130	2		20
1,4-Dichlorobenzene	98		96		70-130	2		20
Methyl tert butyl ether	88		88		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	97		93		70-130	4		20
Dibromomethane	89		91		70-130	2		20
1,2,3-Trichloropropane	95		91		64-130	4		20
Acrylonitrile	93		94		70-130	1		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	95		90		36-147	5		20
Acetone	88		78		58-148	12		20
Carbon disulfide	110		99		51-130	11		20
2-Butanone	87		87		63-138	0		20
Vinyl acetate	95		100		70-130	5		20
4-Methyl-2-pentanone	79		84		59-130	6		20
2-Hexanone	76		77		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1886881-3 WG1886881-4								
Bromochloromethane	96		97		70-130	1		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	89		89		70-130	0		20
1,3-Dichloropropane	97		96		70-130	1		20
1,1,1,2-Tetrachloroethane	94		91		64-130	3		20
Bromobenzene	94		92		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		97		70-130	2		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	84		89		41-144	6		20
Hexachlorobutadiene	96		97		63-130	1		20
Isopropylbenzene	100		98		70-130	2		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	80		84		70-130	5		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	84		89		70-130	6		20
1,2,4-Trichlorobenzene	88		89		70-130	1		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	88		88		56-162	0		20
p-Diethylbenzene	99		98		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 Batch: WG1886881-3 WG1886881-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	93		92		70-130	1		20
Ethyl ether	82		86		59-134	5		20
trans-1,4-Dichloro-2-butene	96		94		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263
Lab Number: L2408684
Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1887166-3 WG1887166-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	100		98		63-130	2		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	97		91		62-150	6		20
1,2-Dichloroethane	98		95		70-130	3		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		97		67-130	3		20
trans-1,3-Dichloropropene	100		97		70-130	3		20
cis-1,3-Dichloropropene	99		96		70-130	3		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	99		96		54-136	3		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	110		100		70-130	10		20
Toluene	110		100		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	77		74		39-139	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1887166-3 WG1887166-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	100		94		55-138	6		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	110		100		70-130	10		20
Methyl tert butyl ether	97		97		63-130	0		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	98		95		70-130	3		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	110		110		70-130	0		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	100		100		58-148	0		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	100		100		63-138	0		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	87		91		59-130	4		20
2-Hexanone	84		87		57-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263
Lab Number: L2408684
Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1887166-3 WG1887166-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	99		97		70-130	2		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		99		64-130	1		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
Hexachlorobutadiene	95		92		63-130	3		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	94		95		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	94		92		70-130	2		20
1,2,4-Trichlorobenzene	97		95		70-130	2		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	**172**	Q	158		56-162	8		20
p-Diethylbenzene	100		99		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1887166-3 WG1887166-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	100		95		70-130	5		20
Ethyl ether	92		91		59-134	1		20
trans-1,4-Dichloro-2-butene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		94		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		98		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1886881-6 WG1886881-7 QC Sample: L2408684-01 Client ID: MW-8												
Methylene chloride	ND	10	7.4	74		7.1	71		70-130	4		20
1,1-Dichloroethane	ND	10	8.4	84		7.2	72		70-130	15		20
Chloroform	ND	10	8.6	86		8.5	85		70-130	1		20
Carbon tetrachloride	ND	10	9.0	90		8.4	84		63-132	7		20
1,2-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
Dibromochloromethane	ND	10	10	100		9.8	98		63-130	2		20
1,1,2-Trichloroethane	ND	10	34	**340**	Q	33	**330**	Q	70-130	3		20
Tetrachloroethene	ND	10	11	110		10	100		70-130	10		20
Chlorobenzene	ND	10	11	110		10	100		75-130	10		20
Trichlorofluoromethane	ND	10	8.3	83		7.4	74		62-150	11		20
1,2-Dichloroethane	ND	10	8.6	86		8.0	80		70-130	7		20
1,1,1-Trichloroethane	ND	10	8.8	88		8.3	83		67-130	6		20
Bromodichloromethane	ND	10	7.9	79		7.7	77		67-130	3		20
trans-1,3-Dichloropropene	ND	10	11	110		10	100		70-130	10		20
cis-1,3-Dichloropropene	ND	10	8.3	83		7.9	79		70-130	5		20
1,1-Dichloropropene	ND	10	9.4	94		8.7	87		70-130	8		20
Bromoform	ND	10	9.5	95		9.1	91		54-136	4		20
1,1,2,2-Tetrachloroethane	ND	10	11	110		10	100		67-130	10		20
Benzene	1.2	10	10	88		9.8	86		70-130	2		20
Toluene	2.3J	10	13	130		13	130		70-130	0		20
Ethylbenzene	14	10	26	120		31	**170**	Q	70-130	18		20
Chloromethane	ND	10	8.0	80		7.6	76		64-130	5		20
Bromomethane	ND	10	4.2	42		4.4	44		39-139	5		20

Matrix Spike Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1886881-6 WG1886881-7 QC Sample: L2408684-01 Client ID: MW-8												
Vinyl chloride	ND	10	9.4	94		8.7	87		55-140	8		20
Chloroethane	ND	10	8.4	84		7.9	79		55-138	6		20
1,1-Dichloroethene	ND	10	8.7	87		8.0	80		61-145	8		20
trans-1,2-Dichloroethene	ND	10	8.0	80		7.6	76		70-130	5		20
Trichloroethene	ND	10	8.6	86		8.0	80		70-130	7		20
1,2-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
1,3-Dichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
1,4-Dichlorobenzene	ND	10	10	100		9.8	98		70-130	2		20
Methyl tert butyl ether	ND	10	8.7	87		8.2	82		63-130	6		20
p/m-Xylene	5.3	20	27	109		27	109		70-130	0		20
o-Xylene	6.2	20	28	109		27	104		70-130	4		20
cis-1,2-Dichloroethene	ND	10	7.0	70		7.1	71		70-130	1		20
Dibromomethane	ND	10	8.6	86		8.5	85		70-130	1		20
1,2,3-Trichloropropane	ND	10	10	100		9.9	99		64-130	1		20
Acrylonitrile	ND	10	17	**170**	Q	17	**170**	Q	70-130	0		20
Styrene	ND	20	21	105		20	100		70-130	5		20
Dichlorodifluoromethane	ND	10	7.4	74		6.9	69		36-147	7		20
Acetone	24	10	31	70		34	100		58-148	9		20
Carbon disulfide	ND	10	8.9	89		7.9	79		51-130	12		20
2-Butanone	ND	10	18	**180**	Q	16	**160**	Q	63-138	12		20
Vinyl acetate	ND	10	9.7	97		9.1	91		70-130	6		20
4-Methyl-2-pentanone	ND	10	13	130		13	130		59-130	0		20
2-Hexanone	ND	10	13	130		13	130		57-130	0		20

Matrix Spike Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1886881-6 WG1886881-7 QC Sample: L2408684-01 Client ID: MW-8												
Bromochloromethane	ND	10	8.3	83		7.8	78		70-130	6		20
2,2-Dichloropropane	ND	10	6.8	68		6.1	**61**	Q	63-133	11		20
1,2-Dibromoethane	ND	10	11	110		11	110		70-130	0		20
1,3-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		10	100		64-130	10		20
Bromobenzene	ND	10	10	100		9.9	99		70-130	1		20
n-Butylbenzene	ND	10	10	100		9.5	95		53-136	5		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
o-Chlorotoluene	ND	10	11	110		9.9	99		70-130	11		20
p-Chlorotoluene	ND	10	10	100		9.9	99		70-130	1		20
1,2-Dibromo-3-chloropropane	ND	10	10	100		10	100		41-144	0		20
Hexachlorobutadiene	ND	10	7.8	78		7.2	72		63-130	8		20
Isopropylbenzene	1.9J	10	13	130		13	130		70-130	0		20
p-Isopropyltoluene	2.8	10	13	102		12	92		70-130	8		20
Naphthalene	ND	10	12	120		11	110		70-130	9		20
n-Propylbenzene	2.8	10	14	112		14	112		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	10	100		9.7	97		70-130	3		20
1,2,4-Trichlorobenzene	ND	10	9.9	99		9.2	92		70-130	7		20
1,3,5-Trimethylbenzene	1.0J	10	12	120		11	110		64-130	9		20
1,2,4-Trimethylbenzene	51	10	62	110		69	**180**	Q	70-130	11		20
1,4-Dioxane	ND	500	340	68		340	68		56-162	0		20
p-Diethylbenzene	6.6	10	17	104		16	94		70-130	6		20

Matrix Spike Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-05 QC Batch ID: WG1886881-6 WG1886881-7 QC Sample: L2408684-01 Client ID: MW-8												
p-Ethyltoluene	4.6	10	16	114		14	94		70-130	13		20
1,2,4,5-Tetramethylbenzene	18	10	28	100		28	100		70-130	0		20
Ethyl ether	ND	10	7.2	72		7.5	75		59-134	4		20
trans-1,4-Dichloro-2-butene	ND	10	8.9	89		8.6	86		70-130	3		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	73		73		70-130
Toluene-d8	105		106		70-130

METALS

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-01 Date Collected: 02/15/24 12:20

Client ID: MW-8 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	10.9		mg/l	0.0500	0.0191	1	02/20/24 10:54	02/23/24 06:41	EPA 3005A	1,6020B	EJF
Manganese, Total	1.101		mg/l	0.00500	0.00220	5	02/20/24 10:54	02/23/24 07:20	EPA 3005A	1,6020B	EJF

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-02 Date Collected: 02/15/24 13:55

Client ID: MW-9 Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	2.13		mg/l	0.0500	0.0191	1	02/20/24 10:54	02/23/24 07:53	EPA 3005A	1,6020B	EJF
Manganese, Total	0.1149		mg/l	0.00100	0.00044	1	02/20/24 10:54	02/23/24 07:53	EPA 3005A	1,6020B	EJF

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-03 Date Collected: 02/15/24 12:35

Client ID: DUP Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	7.29		mg/l	0.0500	0.0191	1	02/20/24 10:54	02/23/24 07:57	EPA 3005A	1,6020B	EJF
Manganese, Total	0.1205		mg/l	0.01000	0.00440	10	02/20/24 10:54	02/23/24 08:36	EPA 3005A	1,6020B	EJF

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

SAMPLE RESULTS

Lab ID: L2408684-04 Date Collected: 02/15/24 13:00

Client ID: FIELD BLANK Date Received: 02/16/24

Sample Location: 701-709 WATER ST E. SYRACUSE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/20/24 10:54	02/23/24 08:12	EPA 3005A	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	02/20/24 10:54	02/23/24 08:12	EPA 3005A	1,6020B	EJF

Project Name: U-HAUL FACILITY #873067 **Lab Number:** L2408684

Project Number: ES21-340263 **Report Date:** 02/23/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1886950-1										
Iron, Total	ND		mg/l	0.0500	0.0191	1	02/20/24 10:54	02/23/24 06:18	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	02/20/24 10:54	02/23/24 06:18	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: U-HAUL FACILITY #873067

Project Number: ES21-340263

Lab Number: L2408684

Report Date: 02/23/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1886950-2								
Iron, Total	105		-		80-120	-		
Manganese, Total	104		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1886950-3 WG1886950-4 QC Sample: L2408684-01 Client ID: MW-8												
Iron, Total	10.9	1	12.7	**180**	Q	12.9	**200**	Q	75-125	2		20
Manganese, Total	1.101	0.5	1.661	124		1.704	**133**	Q	75-125	3		20

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2408684
Report Date: 02/23/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1886950-6 QC Sample: L2408684-01 Client ID: MW-8						
Iron, Total	10.9	11.2	mg/l	3		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1886950-6 QC Sample: L2408684-01 Client ID: MW-8						
Manganese, Total	1.101	1.114	mg/l	1		20

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408684-01A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01A1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01A2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01B1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01B2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01C1	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01C2	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-01D	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-01D1	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-01D2	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-02D	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-03A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-03B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-03C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-03D	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-04A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-04B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-04C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: U-HAUL FACILITY #873067
Project Number: ES21-340263

Lab Number: L2408684
Report Date: 02/23/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408684-04D	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		FE-6020T(180),MN-6020T(180)
L2408684-05A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)
L2408684-05B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	U-HAUL FACILITY #873067	**Lab Number:**	L2408684
Project Number:	ES21-340263	**Report Date:**	02/23/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 2/17/24

ALPHA Job #: L2408684

Client Information

Client: Pariner ESI
Address: 611 Industrial Way
Eatontown NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: dlent@pariner esi.com

Project Information

Project Name: U-Haul Facility #873067
Project Location: 701-709 Water St E, Syracuse NY
Project #: ES21-340263
(Use Project name as Project #): ☐
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Billing Information

☑ Same as Client Info
PO #: ES21-340263

Regulatory Requirement

☑ NY TOGS ☐ NY Part 375
☑ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Iron	Manganese	Sample Specific Comments	Total Bottle
08684-01	MW-8	2-15-24	1220	GW	BC	X	X	X		4
-02	MW-9	2-15-24	1355	GW	BC	X	X	X		4
-01	MS (MW-8)	2-15-24	1230	GW	BC	X	X	X		4
-01	MSD (MW-8)	2-15-24	1230	GW	BC	X	X	X		4
-03	DUP	2-15-24	1235	GW	BC	X	X	X		4
-04	Field Blank	2-15-24	1300	GW	BC	X	X	X		4
-05	Trip Blank	2-14-24	1010	GW	[redacted]	X				2

Container Type: V P P
Preservative: B C C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2-16-24 1100	[signature]	2/16/24 1254
[signature] Manuel Sánchez	2/16/24 1728	Manuel Sánchez	FEB 16 2024 18:30
Manuel Sánchez	FEB 16 2024	[signature]	2/16 22:00
[signature]	2/17 0:30	[signature]	2/17/24 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX G
DATA USABILITY SUMMARY REPORT

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

February 29, 2024

Ms. Ally Hassler
Project Geologist-Env. Solutions Group
Partner Engineering and Science, Inc.
611 Industrial Way West
Eatontown, NJ 07724

Re: 700 Out Parcel, LLC (site code C734111)
701-709 E. Water St, Syracuse, NY
Data Validation Report
February 2024 Ground Water Samples

Dear Ms. Hassler:

The data usability summary report (DUSR) and data validation reviews for the 700 Out Parcel, LLC (site code C734111), 701-709 E. Water St, Syracuse, NY, February 2024 ground water sampling event are attached to this letter. The data are acceptable for Alpha Analytical Labs, SDG Number: L2408684 with some minor issues that are identified and discussed in the validation summaries. There are no data that were rejected (R) in the data pack.

A list of common data validation acronyms is attached to this letter to assist your interpretation the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Partner Engineering and Science, Inc.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2022\22600-22620\22612-700 out parcel\task 1-dusr\temp review\700 out parcel-241.ltr.docx

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

ALPHA GEOSCIENCE

Geology

Hydrology

Remediation

Water Supply

Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2408684

2 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Trip Blank
Collected February 14-15, 2024

Prepared by: Donald Anné
February 29, 2024

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatile, iron, and manganese analyses for 2 ground water samples, 1 field duplicate, and 1 field blank and the results of volatile analysis for 1 trip blank.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile result for ethylbenzene was qualified as estimated, biased high (J+) for sample MW-8 because 1 of 2 percent recoveries for ethylbenzene was above QC limits in the aqueous MS/MSD sample.

- The “not detected” volatile result for 2,2-dichloropropane was qualified as estimated (UJ) for sample MW-8 because 1 of 2 percent recoveries for 2,2-dichloropropane was below QC limits, but not below 30% in the aqueous MS/MSD sample.

- The positive volatile results for p/m-xylene, isopropylbenzene, and n-propylbenzene were qualified as estimated (J) for samples MW-8 and DUP because the relative percent differences for p/m-xylene, isopropylbenzene, and n-propylbenzene were above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.

- The positive volatile result for ethylbenzene was qualified as estimated (J) for sample DUP because the relative percent difference for ethylbenzene was above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
www.alphageoscience.com

- The positive metal results for manganese were qualified as estimated, biased high (J+) for samples MW-8, MW-9, and DUP because 1 of 2 percent recoveries for manganese was above QC limits in the associated aqueous MS/MSD sample.

- The positive metal results for iron were qualified as estimated (J) for samples MW-8 and DUP because the relative percent difference for iron was above the allowable maximum for the aqueous field duplicate pair MW-8/DUP.

All data are considered usable with estimated (J+, J, or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

Qualified Data Section

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-01	Date Collected	: 02/15/24 12:20
Client ID	: MW-8	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 02:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A26	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	1.2	0.50	0.16	
108-88-3	Toluene	2.3	2.5	0.70	J
100-41-4	Ethylbenzene	14	2.5	0.70	J+
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-01	Date Collected	: 02/15/24 12:20
Client ID	: MW-8	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 02:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A26	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	5.3	2.5	0.70	J
95-47-6	o-Xylene	6.2	2.5	0.70	
1330-20-7	Xylenes, Total	12	2.5	0.70	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	24	5.0	1.5	
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-01	Date Collected	: 02/15/24 12:20
Client ID	: MW-8	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 02:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A26	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U	UJ
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U	
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U	
108-86-1	Bromobenzene	ND	2.5	0.70	U	
104-51-8	n-Butylbenzene	ND	2.5	0.70	U	
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U	
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U	
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U	
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U	
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U	
98-82-8	Isopropylbenzene	1.9	2.5	0.70	J	J
99-87-6	p-Isopropyltoluene	2.8	2.5	0.70		
91-20-3	Naphthalene	ND	2.5	0.70	U	
103-65-1	n-Propylbenzene	2.8	2.5	0.70		J
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U	
108-67-8	1,3,5-Trimethylbenzene	1.0	2.5	0.70	J	
95-63-6	1,2,4-Trimethylbenzene	51	2.5	0.70		
123-91-1	1,4-Dioxane	ND	250	61.	U	
105-05-5	p-Diethylbenzene	6.6	2.0	0.70		
622-96-8	p-Ethyltoluene	4.6	2.0	0.70		
95-93-2	1,2,4,5-Tetramethylbenzene	18	2.0	0.54		
60-29-7	Ethyl ether	ND	2.5	0.70	U	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-01	**Date Collected**	: 02/15/24 12:20
Client ID	: MW-8	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 02:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A26	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-02	**Date Collected**	: 02/15/24 13:55
Client ID	: MW-9	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V08240219A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-02	**Date Collected**	: 02/15/24 13:55
Client ID	: MW-9	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V08240219A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-02	Date Collected	: 02/15/24 13:55
Client ID	: MW-9	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 17:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MAG
Lab File ID	: V08240219A24	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	1.9	2.0	0.70	J
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.91	2.0	0.54	J
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-02	**Date Collected**	: 02/15/24 13:55
Client ID	: MW-9	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: V08240219A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-03	Date Collected	: 02/15/24 12:35
Client ID	: DUP	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 01:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A24	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	1.3	0.50	0.16	
108-88-3	Toluene	2.9	2.5	0.70	
100-41-4	Ethylbenzene	22	2.5	0.70	J
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-03	Date Collected	: 02/15/24 12:35
Client ID	: DUP	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 01:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A24	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	7.1	2.5	0.70	J
95-47-6	o-Xylene	7.0	2.5	0.70	
1330-20-7	Xylenes, Total	14	2.5	0.70	
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	23	5.0	1.5	
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-03	Date Collected	: 02/15/24 12:35
Client ID	: DUP	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 01:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A24	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	2.6	2.5	0.70	J
99-87-6	p-Isopropyltoluene	2.8	2.5	0.70	
91-20-3	Naphthalene	0.81	2.5	0.70	J
103-65-1	n-Propylbenzene	3.8	2.5	0.70	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	1.2	2.5	0.70	J
95-63-6	1,2,4-Trimethylbenzene	59	2.5	0.70	
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	6.6	2.0	0.70	
622-96-8	p-Ethyltoluene	4.7	2.0	0.70	
95-93-2	1,2,4,5-Tetramethylbenzene	19	2.0	0.54	
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-03	**Date Collected**	: 02/15/24 12:35
Client ID	: DUP	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 01:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A24	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-04	Date Collected	: 02/15/24 13:00
Client ID	: FIELD BLANK	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 01:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A23	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-04	**Date Collected**	: 02/15/24 13:00
Client ID	: FIELD BLANK	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 01:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A23	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-04	Date Collected	: 02/15/24 13:00
Client ID	: FIELD BLANK	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 01:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A23	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-04	**Date Collected**	: 02/15/24 13:00
Client ID	: FIELD BLANK	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 01:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A23	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-05	**Date Collected**	: 02/14/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 00:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A22	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-05	**Date Collected**	: 02/14/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 00:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A22	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-05	Date Collected	: 02/14/24 00:00
Client ID	: TRIP BLANK	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/19/24 00:55
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: VE240218A22	Instrument ID	: ELAINE
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.54	U
60-29-7	Ethyl ether	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Lab ID	: L2408684-05	**Date Collected**	: 02/14/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	**Date Analyzed**	: 02/19/24 00:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: VE240218A22	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-01	Date Collected	: 02/15/24 12:20
Client ID	: MW-8	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 07:20
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-96-5	Manganese, Total	1.101	0.00500	0.00220	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-01	Date Collected	: 02/15/24 12:20
Client ID	: MW-8	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 06:41
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	10.9	0.0500	0.0191	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-02	Date Collected	: 02/15/24 13:55
Client ID	: MW-9	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 07:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	2.13	0.0500	0.0191	
7439-96-5	Manganese, Total	0.1149	0.00100	0.00044	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-03	Date Collected	: 02/15/24 12:35
Client ID	: DUP	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 07:57
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	7.29	0.0500	0.0191	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-03	Date Collected	: 02/15/24 12:35
Client ID	: DUP	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 08:36
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-96-5	Manganese, Total	0.1205	0.01000	0.00440	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Lab ID	: L2408684-04	Date Collected	: 02/15/24 13:00
Client ID	: FIELD BLANK	Date Received	: 02/16/24
Sample Location	: 701-709 WATER ST E. SYRACUSE, NY	Date Analyzed	: 02/23/24 08:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1888369.csv	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 02/20/24

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U

VOC Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2408684

2 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 1 Trip Blank
Collected February 14-15, 2024

Prepared by: Donald Anné
February 29, 2024

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for acetone, methyl acetate, 2-butanone, bromodichloromethane, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 for VOA108 on 01-09-24. The average RRFs for acetone, methyl acetate, 2-butanone, bromodichloromethane, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 for ELAINE on 01-15-24. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane and 0.010 for all others) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 9 compounds (highlighted yellow on attached Form 7) were below the method minimum, but not below 0.010 on 02-18-24 (VE240218A01). The RRFs for 7 compounds (highlighted yellow on attached Form 7) were below the method minimums, but not below 0.010 on 02-19-24 (V08240219A01). The %Ds for bromomethane, 4-methyl-2-pentanone, and 2-hexanone were above the method maximum on 02-18-24 (VE240218A01). The %Ds for dichlorodifluoromethane and bromomethane were above the method maximum on 02-19-24 (V08240219A01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane and 0.010 for all others), as required.

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The %Ds for bromomethane, 4-methyl-2-pentanone, 2-hexanone, and naphthalene were above the allowable maximum (20%) on 02-18-24(VE240218A01). The %Ds for dichlorodifluoromethane, bromomethane, and 1,4-dioxane were above the allowable maximum (20%) on 02-19-23 (V08240219A01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples, field blank, and trip blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target compounds were below the allowable maximum; 2 of 2 percent recoveries (%Rs) for 1,1,2-trichloroethane, acrylonitrile, and 2-butanone, and 1 of 2 %Rs for ethylbenzene were above QC limits; and 1 of 2 %Rs for 2,2-dichloropropane was below QC limits, but not below 30% for aqueous MS/MSD sample MW-8. The positive result for ethylbenzene should be considered estimated, biased high (J+) and the "not detected" result for 2,2-dichloropropane estimated (UJ) in sample MW-8.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for aqueous samples WG1886881-3/4.

The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for 1,4-dioxane was above QC limits for aqueous samples WG1887166-3/4.

Field Duplicates: The relative percent differences for ethylbenzene, p/m-xylene, isopropylbenzene, and n-propylbenzene were above the allowable maximum (20%) for aqueous field duplicate pair MW-8/DUP (attached table). Positive results for these 4 compounds should be considered estimated (J) in samples MW-8 and DUP.

Compound ID: Checked compound and surrogate results were within GC quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1887166-3	**Analysis Date** : 02/19/24 09:01	**File ID** : V08240219A01
LCSD Sample ID	: WG1887166-4	**Analysis Date** : 02/19/24 09:23	**File ID** : V08240219A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	10	100	10	10	100	0	70-130	20
1,1-Dichloroethane	10	11	110	10	10	100	10	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	10	11	110	10	10	100	10	70-130	20
Dibromochloromethane	10	10	100	10	9.8	98	2	63-130	20
1,1,2-Trichloroethane	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	10	11	110	10	10	100	10	75-130	20
Trichlorofluoromethane	10	9.7	97	10	9.1	91	6	62-150	20
1,2-Dichloroethane	10	9.8	98	10	9.5	95	3	70-130	20
1,1,1-Trichloroethane	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	10	10	100	10	9.7	97	3	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	9.7	97	3	70-130	20
cis-1,3-Dichloropropene	10	9.9	99	10	9.6	96	3	70-130	20
1,1-Dichloropropene	10	11	110	10	10	100	10	70-130	20
Bromoform	10	9.9	99	10	9.6	96	3	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110	10	10	100	10	67-130	20
Benzene	10	11	110	10	10	100	10	70-130	20
Toluene	10	11	110	10	10	100	10	70-130	20
Ethylbenzene	10	10	100	10	10	100	0	70-130	20
Chloromethane	10	11	110	10	11	110	0	64-130	20
Bromomethane	10	7.7	77	10	7.4	74	4	39-139	20
Vinyl chloride	10	11	110	10	10	100	10	55-140	20
Chloroethane	10	10	100	10	9.4	94	6	55-138	20
1,1-Dichloroethene	10	11	110	10	11	110	0	61-145	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1887166-3	**Analysis Date** : 02/19/24 09:01	**File ID** : V08240219A01
LCSD Sample ID	: WG1887166-4	**Analysis Date** : 02/19/24 09:23	**File ID** : V08240219A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	10	11	110	10	10	100	10	70-130	20
Trichloroethene	10	11	110	10	10	100	10	70-130	20
1,2-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,3-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
1,4-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
Methyl tert butyl ether	10	9.7	97	10	9.7	97	0	63-130	20
p/m-Xylene	20	21	105	20	20	100	5	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20
Dibromomethane	10	9.8	98	10	9.5	95	3	70-130	20
1,2,3-Trichloropropane	10	10	100	10	10	100	0	64-130	20
Acrylonitrile	10	11	110	10	11	110	0	70-130	20
Styrene	20	20	100	20	19	95	5	70-130	20
Dichlorodifluoromethane	10	12	120	10	11	110	9	36-147	20
Acetone	10	10	100	10	10	100	0	58-148	20
Carbon disulfide	10	11	110	10	10	100	10	51-130	20
2-Butanone	10	10	100	10	10	100	0	63-138	20
Vinyl acetate	10	10	100	10	10	100	0	70-130	20
4-Methyl-2-pentanone	10	8.7	87	10	9.1	91	4	59-130	20
2-Hexanone	10	8.4	84	10	8.7	87	4	57-130	20
Bromochloromethane	10	11	110	10	10	100	10	70-130	20
2,2-Dichloropropane	10	11	110	10	10	100	10	63-133	20
1,2-Dibromoethane	10	9.9	99	10	9.7	97	2	70-130	20
1,3-Dichloropropane	10	10	100	10	10	100	0	70-130	20
1,1,1,2-Tetrachloroethane	10	10	100	10	9.9	99	1	64-130	20
Bromobenzene	10	11	110	10	10	100	10	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1887166-3 Analysis Date : 02/19/24 09:01	File ID	: V08240219A01
LCSD Sample ID	: WG1887166-4 Analysis Date : 02/19/24 09:23	File ID	: V08240219A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
n-Butylbenzene	10	11	110	10	10	100	10	53-136	20
sec-Butylbenzene	10	11	110	10	10	100	10	70-130	20
tert-Butylbenzene	10	11	110	10	10	100	10	70-130	20
o-Chlorotoluene	10	11	110	10	10	100	10	70-130	20
p-Chlorotoluene	10	11	110	10	10	100	10	70-130	20
1,2-Dibromo-3-chloropropane	10	10	100	10	10	100	0	41-144	20
Hexachlorobutadiene	10	9.5	95	10	9.2	92	3	63-130	20
Isopropylbenzene	10	11	110	10	10	100	10	70-130	20
p-Isopropyltoluene	10	11	110	10	10	100	10	70-130	20
Naphthalene	10	9.4	94	10	9.5	95	1	70-130	20
n-Propylbenzene	10	11	110	10	10	100	10	69-130	20
1,2,3-Trichlorobenzene	10	9.4	94	10	9.2	92	2	70-130	20
1,2,4-Trichlorobenzene	10	9.7	97	10	9.5	95	2	70-130	20
1,3,5-Trimethylbenzene	10	11	110	10	10	100	10	64-130	20
1,2,4-Trimethylbenzene	10	11	110	10	10	100	10	70-130	20
1,4-Dioxane	500	860	172 Q	500	790	158	8	56-162	20
p-Diethylbenzene	10	10	100	10	9.9	99	1	70-130	20
p-Ethyltoluene	10	11	110	10	10	100	10	70-130	20
1,2,4,5-Tetramethylbenzene	10	10	100	10	9.5	95	5	70-130	20
Ethyl ether	10	9.2	92	10	9.1	91	1	59-134	20
trans-1,4-Dichloro-2-butene	10	10	100	10	10	100	0	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Client Sample ID	: MW-8	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2408684-01	Analysis Date	: 02/19/24 02:49
Matrix Spike	: WG1886881-6	MS Analysis Date	: 02/19/24 03:13
Matrix Spike Dup	: WG1886881-7	MSD Analysis Date	: 02/19/24 03:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	7.4	74	10	7.1	71	4	70-130	20
1,1-Dichloroethane	ND	10	8.4	84	10	7.2	72	15	70-130	20
Chloroform	ND	10	8.6	86	10	8.5	85	1	70-130	20
Carbon tetrachloride	ND	10	9.0	90	10	8.4	84	7	63-132	20
1,2-Dichloropropane	ND	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	ND	10	10	100	10	9.8	98	2	63-130	20
1,1,2-Trichloroethane	ND	10	34	340 Q	10	33	330 Q	3	70-130	20
Tetrachloroethene	ND	10	11	110	10	10	100	10	70-130	20
Chlorobenzene	ND	10	11	110	10	10	100	10	75-130	20
Trichlorofluoromethane	ND	10	8.3	83	10	7.4	74	11	62-150	20
1,2-Dichloroethane	ND	10	8.6	86	10	8.0	80	7	70-130	20
1,1,1-Trichloroethane	ND	10	8.8	88	10	8.3	83	6	67-130	20
Bromodichloromethane	ND	10	7.9	79	10	7.7	77	3	67-130	20
trans-1,3-Dichloropropene	ND	10	11	110	10	10	100	10	70-130	20
cis-1,3-Dichloropropene	ND	10	8.3	83	10	7.9	79	5	70-130	20
1,1-Dichloropropene	ND	10	9.4	94	10	8.7	87	8	70-130	20
Bromoform	ND	10	9.5	95	10	9.1	91	4	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11	110	10	10	100	10	67-130	20
Benzene	1.2	10	10	88	10	9.8	86	2	70-130	20
Toluene	2.3J	10	13	130	10	13	130	0	70-130	20
Ethylbenzene	14	10	26	120	10	31	170 Q	18	70-130	20
Chloromethane	ND	10	8.0	80	10	7.6	76	5	64-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Client Sample ID	: MW-8	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2408684-01	Analysis Date	: 02/19/24 02:49
Matrix Spike	: WG1886881-6	MS Analysis Date	: 02/19/24 03:13
Matrix Spike Dup	: WG1886881-7	MSD Analysis Date	: 02/19/24 03:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bromomethane	ND	10	4.2	42	10	4.4	44	5	39-139	20
Vinyl chloride	ND	10	9.4	94	10	8.7	87	8	55-140	20
Chloroethane	ND	10	8.4	84	10	7.9	79	6	55-138	20
1,1-Dichloroethene	ND	10	8.7	87	10	8.0	80	8	61-145	20
trans-1,2-Dichloroethene	ND	10	8.0	80	10	7.6	76	5	70-130	20
Trichloroethene	ND	10	8.6	86	10	8.0	80	7	70-130	20
1,2-Dichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
1,3-Dichlorobenzene	ND	10	10	100	10	9.9	99	1	70-130	20
1,4-Dichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
Methyl tert butyl ether	ND	10	8.7	87	10	8.2	82	6	63-130	20
p/m-Xylene	5.3	20	27	109	20	27	109	0	70-130	20
o-Xylene	6.2	20	28	109	20	27	104	4	70-130	20
cis-1,2-Dichloroethene	ND	10	7.0	70	10	7.1	71	1	70-130	20
Dibromomethane	ND	10	8.6	86	10	8.5	85	1	70-130	20
1,2,3-Trichloropropane	ND	10	10	100	10	9.9	99	1	64-130	20
Acrylonitrile	ND	10	17	170 Q	10	17	170 Q	0	70-130	20
Styrene	ND	20	21	105	20	20	100	5	70-130	20
Dichlorodifluoromethane	ND	10	7.4	74	10	6.9	69	7	36-147	20
Acetone	24	10	31	70	10	34	100	9	58-148	20
Carbon disulfide	ND	10	8.9	89	10	7.9	79	12	51-130	20
2-Butanone	ND	10	18	180 Q	10	16	160 Q	12	63-138	20
Vinyl acetate	ND	10	9.7	97	10	9.1	91	6	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Client Sample ID	: MW-8	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2408684-01	Analysis Date	: 02/19/24 02:49
Matrix Spike	: WG1886881-6	MS Analysis Date	: 02/19/24 03:13
Matrix Spike Dup	: WG1886881-7	MSD Analysis Date	: 02/19/24 03:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
4-Methyl-2-pentanone	ND	10	13	130	10	13	130	0	59-130	20
2-Hexanone	ND	10	13	130	10	13	130	0	57-130	20
Bromochloromethane	ND	10	8.3	83	10	7.8	78	6	70-130	20
2,2-Dichloropropane	ND	10	6.8	68	10	6.1	61 Q	11	63-133	20
1,2-Dibromoethane	ND	10	11	110	10	11	110	0	70-130	20
1,3-Dichloropropane	ND	10	11	110	10	11	110	0	70-130	20
1,1,1,2-Tetrachloroethane	ND	10	11	110	10	10	100	10	64-130	20
Bromobenzene	ND	10	10	100	10	9.9	99	1	70-130	20
n-Butylbenzene	ND	10	10	100	10	9.5	95	5	53-136	20
sec-Butylbenzene	ND	10	11	110	10	10	100	10	70-130	20
tert-Butylbenzene	ND	10	11	110	10	10	100	10	70-130	20
o-Chlorotoluene	ND	10	11	110	10	9.9	99	11	70-130	20
p-Chlorotoluene	ND	10	10	100	10	9.9	99	1	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	10	100	10	10	100	0	41-144	20
Hexachlorobutadiene	ND	10	7.8	78	10	7.2	72	8	63-130	20
Isopropylbenzene	1.9J	10	13	130	10	13	130	0	70-130	20
p-Isopropyltoluene	2.8	10	13	102	10	12	92	8	70-130	20
Naphthalene	ND	10	12	120	10	11	110	9	70-130	20
n-Propylbenzene	2.8	10	14	112	10	14	112	0	69-130	20
1,2,3-Trichlorobenzene	ND	10	10	100	10	9.7	97	3	70-130	20
1,2,4-Trichlorobenzene	ND	10	9.9	99	10	9.2	92	7	70-130	20
1,3,5-Trimethylbenzene	1.0J	10	12	120	10	11	110	9	64-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263
Client Sample ID	: MW-8	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2408684-01	Analysis Date	: 02/19/24 02:49
Matrix Spike	: WG1886881-6	MS Analysis Date	: 02/19/24 03:13
Matrix Spike Dup	: WG1886881-7	MSD Analysis Date	: 02/19/24 03:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,2,4-Trimethylbenzene	51	10	62	110	10	69	NA	11	70-130	20
1,4-Dioxane	ND	500	340	68	500	340	68	0	56-162	20
p-Diethylbenzene	6.6	10	17	104	10	16	94	6	70-130	20
p-Ethyltoluene	4.6	10	16	114	10	14	94	13	70-130	20
1,2,4,5-Tetramethylbenzene	18	10	28	100	10	28	100	0	70-130	20
Ethyl ether	ND	10	7.2	72	10	7.5	75	4	59-134	20
trans-1,4-Dichloro-2-butene	ND	10	8.9	89	10	8.6	86	3	70-130	20

NA - Sample concentration is greater than 4X the piking level; therefore, the %R is not applicable.

Initial Calibration Summary
Form 6
Volatiles

Client	: **Partner Engineering & Science, Inc.**	**Lab Number**	: **L2408684**
Project Name	: **U-HAUL FACILITY #873067**	**Project Number**	: **ES21-340263**
Instrument ID	: **VOA108**	**Ical Ref**	: **ICAL20750**
Calibration dates	: **01/09/24 17:17 01/09/24 20:58**		

Calibration Files

L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d

L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.155	0.184	0.198	0.196	0.202	0.199	0.205	0.191	9.10
3)	TP	Chloromethane		0.230	0.251	0.256	0.255	0.256	0.255	0.259	0.252	3.83
4)	TC	Vinyl chloride	0.232	0.233	0.271	0.283	0.281	0.285	0.282	0.285	0.269	8.63
5)	TP	Bromomethane		0.168	0.173	0.171	0.177	0.181	0.182	0.187	0.177	3.82
6)	TP	Chloroethane		0.144	0.172	0.176	0.175	0.174	0.175	0.175	0.170	6.83
7)	TP	Trichlorofluor		0.261	0.322	0.336	0.331	0.340	0.340	0.347	0.325	9.00
8)	TP	Ethyl ether		0.088	0.095	0.100	0.104	0.105	0.107	0.108	0.101	7.24
10)	TC	1,1-Dichloroet		0.145	0.174	0.183	0.184	0.190	0.194	0.201	0.181	10.06
11)	TP	Carbon disulfide		0.560	0.609	0.619	0.623	0.640	0.652	0.671	0.625	5.72
12)	TP	Freon-113		0.142	0.186	0.194	0.193	0.203	0.205	0.212	0.191	12.14
13)	TP	Iodomethane		0.295	0.309	0.318	0.326	0.324	0.331	0.330	0.319	4.05
14)	TP	Acrolein			0.009	0.011	0.011	0.011	0.012	0.014	0.011	14.32
15)	TP	Methylene chlo		0.220	0.211	0.209	0.211	0.213	0.218	0.222	0.215	2.36
17)	TP	Acetone			0.046	0.034	0.032	0.032	0.033	0.034	0.035	15.41
18)	TP	trans-1,2-Dich		0.179	0.204	0.209	0.213	0.215	0.221	0.226	0.210	7.36
19)	TP	Methyl acetate			0.099	0.085	0.085	0.084	0.087	0.089	0.088	6.31
20)	TP	Methyl tert butyl ether		0.419	0.436	0.453	0.488	0.504	0.518	0.526	0.478	8.77
21)	TP	tert-Butyl alc			0.007	0.008	0.008	0.008	0.009	0.009	0.008#	7.38
22)	TP	Diisopropyl ether		0.646	0.656	0.674	0.703	0.720	0.734	0.738	0.696	5.37
23)	TP	1,1-Dichloroet		0.362	0.406	0.410	0.415	0.418	0.425	0.430	0.409	5.50
24)	TP	Halothane		0.128	0.155	0.168	0.169	0.175	0.178	0.184	0.165	11.45
25)	TP	Acrylonitrile			0.037	0.040	0.041	0.042	0.043	0.044	0.041	6.00
26)	TP	Ethyl tert-but		0.573	0.600	0.616	0.656	0.683	0.703	0.713	0.649	8.29
27)	TP	Vinyl acetate			0.337	0.413	0.404	0.417	0.424	0.430	0.404	8.47
28)	TP	cis-1,2-Dichlo		0.228	0.236	0.238	0.242	0.243	0.249	0.254	0.241	3.62
29)	TP	2,2-Dichloropr		0.309	0.321	0.333	0.331	0.342	0.342	0.346	0.332	3.99
30)	TP	Bromochloromet		0.089	0.111	0.111	0.116	0.118	0.121	0.122	0.113	9.87
31)	TP	Cyclohexane		0.310	0.342	0.367	0.368	0.386	0.385	0.391	0.364	7.94
32)	TC	Chloroform		0.367	0.381	0.390	0.394	0.392	0.399	0.403	0.389	3.11
33)	TP	Ethyl acetate			0.129	0.132	0.137	0.140	0.141	0.142	0.137	3.98
34)	TP	Carbon tetrachloride	0.229	0.257	0.309	0.313	0.318	0.329	0.334	0.343	0.304	13.12
35)	TP	Tetrahydrofuran			0.034	0.034	0.035	0.036	0.036	0.037	0.035	3.30
36)	S	Dibromofluoromethane	0.265	0.263	0.267	0.264	0.263	0.258	0.260	0.263	0.263	1.02
37)	TP	1,1,1-Trichlor		0.290	0.331	0.345	0.348	0.353	0.357	0.364	0.341	7.25
39)	TP	2-Butanone			0.055	0.052	0.056	0.054	0.055	0.055	0.055	2.36

Initial Calibration Summary
Form 6
Volatiles

Client	: **Partner Engineering & Science, Inc.**	**Lab Number**	: **L2408684**
Project Name	: **U-HAUL FACILITY #873067**	**Project Number**	: **ES21-340263**
Instrument ID	: **VOA108**	**Ical Ref**	: **ICAL20750**
Calibration dates	: **01/09/24 17:17 01/09/24 20:58**		

Calibration Files

L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d

L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.233	0.270	0.288	0.297	0.305	0.308	0.314	0.288	9.84
41) TP	Benzene	0.829	0.770	0.808	0.819	0.852	0.862	0.878	0.890	0.839	4.75
42) TP	Tertiary-Amyl Methyl Ether		0.504	0.495	0.515	0.547	0.566	0.583	0.592	0.543	7.19
43) S	1,2-Dichloroethane-d4	0.274	0.273	0.276	0.288	0.278	0.281	0.279	0.288	0.280	2.06
44) TP	1,2-Dichloroet		0.273	0.268	0.271	0.280	0.282	0.286	0.289	0.278	2.85
47) TP	Methyl cyclohe		0.278	0.320	0.344	0.354	0.377	0.384	0.399	0.351	11.84
48) TP	Trichloroethene	0.176	0.187	0.209	0.218	0.231	0.237	0.244	0.253	0.219	12.41
50) TP	Dibromomethane		0.106	0.118	0.118	0.124	0.126	0.130	0.132	0.122	7.19
51) TC	1,2-Dichloropr		0.208	0.211	0.221	0.231	0.235	0.239	0.243	0.227	6.11
54) TP	Bromodichlorom		0.258	0.280	0.291	0.306	0.312	0.317	0.323	0.298#	7.80
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	12.83
58) TP	cis-1,3-Dichlo		0.308	0.315	0.331	0.356	0.366	0.372	0.380	0.347	8.38
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.287	1.281	1.278	1.265	1.253	1.244	1.216	1.199	1.253	2.54
61) TC	Toluene		0.619	0.667	0.687	0.700	0.714	0.716	0.721	0.689	5.27
62) TP	4-Methyl-2-pen			0.062	0.064	0.067	0.070	0.070	0.070	0.067	5.18
63) TP	Tetrachloroethene		0.255	0.282	0.291	0.298	0.308	0.310	0.318	0.295	7.25
65) TP	trans-1,3-Dich		0.355	0.350	0.367	0.390	0.401	0.401	0.401	0.381	6.01
67) TP	Ethyl methacry		0.241	0.237	0.244	0.256	0.264	0.264	0.264	0.253	4.75
68) TP	1,1,2-Trichlor		0.160	0.163	0.170	0.176	0.182	0.181	0.183	0.174#	5.33
69) TP	Chlorodibromom		0.238	0.249	0.265	0.285	0.297	0.299	0.303	0.276	9.42
70) TP	1,3-Dichloropr		0.347	0.347	0.353	0.368	0.373	0.371	0.370	0.361	3.26
71) TP	1,2-Dibromoethane		0.200	0.204	0.204	0.212	0.216	0.217	0.218	0.210	3.54
72) TP	2-Hexanone		0.120	0.112	0.109	0.114	0.117	0.116	0.114	0.115	3.18
73) TP	Chlorobenzene		0.766	0.783	0.792	0.813	0.829	0.831	0.837	0.807	3.41
74) TC	Ethylbenzene		1.238	1.300	1.324	1.353	1.387	1.374	1.383	1.337	4.05
75) TP	1,1,1,2-Tetrac		0.261	0.278	0.287	0.302	0.314	0.314	0.318	0.296	7.32
76) TP	p/m Xylene		0.478	0.508	0.527	0.541	0.554	0.551	0.555	0.531	5.42
77) TP	o Xylene		0.484	0.508	0.520	0.533	0.547	0.542	0.544	0.525	4.41
78) TP	Styrene		0.787	0.830	0.855	0.899	0.917	0.903	0.894	0.869	5.45
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.268	0.293	0.295	0.313	0.328	0.329	0.337	0.309	8.05
82) TP	Isopropylbenzene		2.408	2.599	2.586	2.601	2.644	2.609	2.646	2.584	3.14
83) S	4-Bromofluorobenzene	0.958	0.921	0.920	0.899	0.896	0.879	0.866	0.870	0.901	3.44
84) TP	Bromobenzene		0.642	0.675	0.642	0.646	0.656	0.648	0.667	0.654	1.95
85) TP	n-Propylbenzene		2.860	3.065	3.036	3.055	3.112	3.036	3.055	3.031	2.63

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2408684**
Project Name	**: U-HAUL FACILITY #873067**	**Project Number**	**: ES21-340263**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL20750**
Calibration dates	**: 01/09/24 17:17 01/09/24 20:58**		

Calibration Files
L11 =V08240109N03.d L1 =V08240109N05.d L2 =V08240109N07.d L3 =V08240109N09.d L4 =V08240109N10.d
L6 =V08240109N11.d L8 =V08240109N12.d L10 =V08240109N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86)	TP 1,4-Dichlorobu		0.727	0.683	0.657	0.660	0.664	0.653	0.658	0.672	3.91
87)	TP 1,1,2,2-Tetrac		0.482	0.481	0.461	0.463	0.461	0.453	0.458	0.466	2.42
88)	TP 4-Ethyltoluene		2.383	2.639	2.606	2.633	2.670	2.623	2.638	2.599	3.73
89)	TP 2-Chlorotoluene		1.810	1.926	1.797	1.868	1.822	1.797	1.835	1.837	2.53
90)	TP 1,3,5-Trimethy		2.040	2.234	2.237	2.297	2.315	2.267	2.282	2.239	4.13
91)	TP 1,2,3-Trichlor		0.373	0.404	0.374	0.377	0.377	0.371	0.379	0.379	2.92
92)	TP trans-1,4-Dich		0.094	0.141	0.138	0.137	0.140	0.137	0.140	0.132	12.76
93)	TP 4-Chlorotoluene		1.880	1.956	1.906	1.909	1.906	1.871	1.895	1.903	1.42
94)	TP tert-Butylbenzene		1.810	1.971	1.951	1.951	1.976	1.936	1.950	1.935	2.93
97)	TP 1,2,4-Trimethy		2.053	2.161	2.193	2.254	2.293	2.228	2.245	2.204	3.58
98)	TP sec-Butylbenzene		2.688	2.845	2.833	2.853	2.893	2.794	2.796	2.815	2.32
99)	TP p-Isopropyltol		2.253	2.499	2.527	2.553	2.599	2.511	2.522	2.495	4.48
100)	TP 1,3-Dichlorobe		1.341	1.322	1.287	1.305	1.305	1.282	1.297	1.306	1.54
101)	TP 1,4-Dichlorobe		1.404	1.338	1.284	1.304	1.313	1.286	1.297	1.318	3.20
102)	TP p-Diethylbenzene		1.386	1.483	1.506	1.555	1.588	1.551	1.585	1.522	4.68
103)	TP n-Butylbenzene		1.894	2.076	2.116	2.139	2.156	2.087	2.099	2.081	4.20
104)	TP 1,2-Dichlorobe		1.236	1.251	1.201	1.210	1.208	1.180	1.202	1.213	1.96
105)	TP 1,2,4,5-Tetram		2.307	2.453	2.443	2.505	2.531	2.487	2.510	2.462	3.06
106)	TP 1,2-Dibromo-3-		0.045	0.075	0.074	0.076	0.077	0.077	0.078	0.072	16.69
107)	TP 1,3,5-Trichlor		0.915	0.975	0.952	0.964	0.965	0.952	0.968	0.956	2.07
108)	TP Hexachlorobuta		0.353	0.404	0.394	0.394	0.394	0.387	0.393	0.388	4.22
109)	TP 1,2,4-Trichlor		0.850	0.834	0.821	0.833	0.838	0.835	0.858	0.838	1.47
110)	TP Naphthalene		1.617	1.651	1.615	1.642	1.660	1.633	1.665	1.640	1.21
111)	TP 1,2,3-Trichlor		0.733	0.758	0.729	0.742	0.750	0.743	0.757	0.744	1.51

Initial Calibration Summary
Form 6
Volatiles

Client	: **Partner Engineering & Science, Inc.**	**Lab Number**	: **L2408684**
Project Name	: **U-HAUL FACILITY #873067**	**Project Number**	: **ES21-340263**
Instrument ID	: **ELAINE**	**Ical Ref**	: **ICAL20777**
Calibration dates	: **01/15/24 11:12 01/15/24 14:50**		

Calibration Files

L11 =VE240115A03.D L1 =VE240115A04.D L2 =VE240115A06.D L3 =VE240115A08.D L4 =VE240115A09.D

L6 =VE240115A10.D L8 =VE240115A11.D L10 =VE240115A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.231	0.293	0.256	0.249	0.264	0.289	0.288	0.267	8.88
3)	TP	Chloromethane		0.237	0.273	0.252	0.231	0.226	0.231	0.226	0.239	7.22
4)	TC	Vinyl chloride	0.137	0.209	0.275	0.244	0.236	0.244	0.255	0.248	0.231	18.34
5)	TP	Bromomethane		0.185	0.184	0.168	0.153	0.157	0.162	0.161	0.167	7.59
6)	TP	Chloroethane		0.143	0.159	0.159	0.148	0.150	0.153	0.130	0.149	6.80
7)	TP	Trichlorofluor		0.270	0.363	0.335	0.329	0.340	0.374	0.363	0.339	10.20
8)	TP	Ethyl ether		0.093	0.093	0.096	0.105	0.108	0.108	0.107	0.101	6.95
10)	TC	1,1-Dichloroet		0.151	0.200	0.190	0.174	0.179	0.195	0.190	0.183	8.97
11)	TP	Carbon disulfide		0.532	0.602	0.590	0.553	0.551	0.569	0.559	0.565	4.24
12)	TP	Freon-113		0.168	0.204	0.182	0.173	0.184	0.206	0.203	0.188	8.32
13)	TP	Iodomethane		0.297	0.280	0.295	0.294	0.286	0.283	0.270	0.286	3.36
14)	TP	Acrolein			0.024	0.023	0.022	0.022	0.023	0.022	0.023	3.21
15)	TP	Methylene chlo		0.245	0.240	0.237	0.216	0.208	0.208	0.206	0.223	7.73
17)	TP	Acetone			0.054	0.040	0.037	0.035	0.038	0.038	0.040	16.66
18)	TP	trans-1,2-Dich		0.178	0.217	0.207	0.199	0.200	0.205	0.204	0.201	5.95
19)	TP	Methyl acetate			0.099	0.085	0.085	0.086	0.087	0.084	0.088	6.56
21)	TP	Methyl tert butyl ether		0.393	0.462	0.471	0.501	0.526	0.520	0.523	0.485	9.89
22)	TP	tert-Butyl alc		0.009	0.011	0.011	0.012	0.012	0.012	0.012	0.011	10.12
24)	TP	Diisopropyl ether		0.512	0.592	0.612	0.614	0.626	0.634	0.631	0.603	7.08
25)	TP	1,1-Dichloroet		0.324	0.394	0.418	0.388	0.373	0.381	0.376	0.379	7.53
26)	TP	Halothane		0.134	0.181	0.163	0.159	0.162	0.167	0.168	0.162	8.80
27)	TP	Acrylonitrile			0.041	0.047	0.045	0.044	0.045	0.043	0.044	4.62
28)	TP	Ethyl tert-but		0.497	0.562	0.571	0.593	0.616	0.623	0.621	0.583	7.74
29)	TP	Vinyl acetate		0.266	0.318	0.346	0.391	0.371	0.408	0.343	0.349	13.64
30)	TP	cis-1,2-Dichlo		0.224	0.244	0.246	0.234	0.236	0.238	0.230	0.236	3.27
31)	TP	2,2-Dichloropr		0.305	0.388	0.340	0.312	0.325	0.338	0.333	0.334	8.03
33)	TP	Bromochloromet		0.084	0.121	0.116	0.106	0.103	0.101	0.098	0.104	11.78
34)	TP	Cyclohexane		0.278	0.386	0.330	0.316	0.328	0.375	0.368	0.340	11.30
35)	TC	Chloroform		0.347	0.412	0.398	0.372	0.351	0.362	0.367	0.373	6.50
36)	TP	Ethyl acetate			0.115	0.113	0.123	0.130	0.132	0.130	0.124	6.54
37)	TP	Carbon tetrachloride	0.214	0.237	0.309	0.286	0.276	0.283	0.310	0.313	0.279	12.89
38)	TP	Tetrahydrofuran			0.032	0.035	0.035	0.037	0.035	0.034	0.035	5.10
39)	S	Dibromofluoromethane	0.264	0.259	0.264	0.267	0.245	0.235	0.237	0.234	0.251	5.73
40)	TP	1,1,1-Trichlor		0.296	0.375	0.351	0.329	0.328	0.349	0.352	0.340	7.36
42)	TP	2-Butanone			0.054	0.051	0.049	0.053	0.055	0.055	0.053	4.22

Initial Calibration Summary
Form 6
Volatiles

Client	: **Partner Engineering & Science, Inc.**	**Lab Number**	: **L2408684**
Project Name	: **U-HAUL FACILITY #873067**	**Project Number**	: **ES21-340263**
Instrument ID	: **ELAINE**	**Ical Ref**	: **ICAL20777**
Calibration dates	: **01/15/24 11:12 01/15/24 14:50**		

Calibration Files

L11 =VE240115A03.D L1 =VE240115A04.D L2 =VE240115A06.D L3 =VE240115A08.D L4 =VE240115A09.D

L6 =VE240115A10.D L8 =VE240115A11.D L10 =VE240115A12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43)	TP	1,1-Dichloropr		0.227	0.289	0.277	0.269	0.280	0.300	0.295	0.277	8.79
45)	TP	Benzene	0.768	0.733	0.881	0.863	0.840	0.847	0.864	0.856	0.831	6.30
46)	TP	Tertiary-Amyl Methyl Ether		0.468	0.523	0.524	0.529	0.551	0.555	0.555	0.529	5.77
47)	S	1,2-Dichloroethane-d4	0.273	0.267	0.275	0.275	0.264	0.258	0.262	0.274	0.269	2.38
48)	T	1,2-Dichloroet		0.249	0.273	0.269	0.260	0.262	0.264	0.262	0.263	2.86
51)	TP	Methyl cyclohe		0.290	0.382	0.325	0.325	0.346	0.402	0.400	0.353	12.23
52)	TP	Trichloroethene	0.186	0.180	0.228	0.214	0.210	0.218	0.224	0.231	0.211	8.91
54)	TP	Dibromomethane		0.107	0.125	0.123	0.120	0.121	0.123	0.122	0.120	4.87
55)	TC	1,2-Dichloropr		0.164	0.212	0.209	0.210	0.212	0.213	0.210	0.204	8.78
57)	TP	2-Chloroethyl		0.080	0.101	0.105	0.107	0.111	0.111	0.111	0.104	10.55
58)	TP	Bromodichlorom		0.237	0.287	0.303	0.295	0.299	0.303	0.299	0.289#	8.12
61)	TP	1,4-Dioxane		0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001#	4.46
62)	TP	cis-1,3-Dichloropropene	0.279	0.286	0.326	0.337	0.349	0.356	0.357	0.352	0.330	9.49
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.271	1.270	1.282	1.284	1.288	1.299	1.283	1.266	1.281	0.84
65)	TC	Toluene		0.646	0.734	0.719	0.694	0.707	0.720	0.710	0.704	4.04
66)	TP	4-Methyl-2-pen			0.057	0.060	0.063	0.066	0.064	0.062	0.062	5.10
67)	TP	Tetrachloroethene		0.254	0.331	0.302	0.296	0.304	0.323	0.318	0.304	8.38
69)	TP	trans-1,3-Dichloropropene	0.273	0.328	0.357	0.376	0.393	0.407	0.403	0.393	0.366	12.58
71)	TP	Ethyl methacry		0.238	0.253	0.258	0.262	0.267	0.262	0.257	0.257	3.69
72)	TP	1,1,2-Trichlor		0.162	0.167	0.175	0.179	0.184	0.182	0.179	0.175#	4.63
73)	TP	Chlorodibromom		0.207	0.249	0.260	0.277	0.289	0.288	0.283	0.265	11.09
74)	TP	1,3-Dichloropr		0.310	0.367	0.374	0.377	0.388	0.385	0.377	0.368	7.21
75)	TP	1,2-Dibromoethane		0.186	0.204	0.216	0.218	0.225	0.223	0.219	0.213	6.37
77)	TP	2-Hexanone		0.109	0.101	0.108	0.107	0.114	0.111	0.108	0.108	3.89
78)	TP	Chlorobenzene		0.726	0.846	0.819	0.785	0.796	0.797	0.788	0.794	4.61
79)	TC	Ethylbenzene		1.232	1.474	1.423	1.357	1.352	1.392	1.374	1.372	5.47
80)	TP	1,1,1,2-Tetrac		0.249	0.277	0.283	0.283	0.289	0.288	0.284	0.279	5.00
81)	TP	p/m Xylene		0.495	0.597	0.573	0.536	0.529	0.545	0.536	0.545	5.97
82)	TP	o Xylene		0.495	0.581	0.568	0.536	0.531	0.538	0.528	0.540	5.19
83)	TP	Styrene		0.785	0.956	0.933	0.887	0.884	0.887	0.871	0.886	6.11
84)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85)	TP	Bromoform		0.256	0.274	0.280	0.294	0.308	0.318	0.320	0.293	8.20
87)	TP	Isopropylbenzene		2.254	2.703	2.511	2.478	2.526	2.758	2.756	2.569	7.13
88)	S	4-Bromofluorobenzene	0.895	0.885	0.874	0.861	0.871	0.886	0.909	0.902	0.885	1.84
89)	TP	Bromobenzene		0.583	0.656	0.638	0.632	0.643	0.657	0.648	0.637	4.00

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2408684**
Project Name	**: U-HAUL FACILITY #873067**	**Project Number**	**: ES21-340263**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL20777**
Calibration dates	**: 01/15/24 11:12 01/15/24 14:50**		

Calibration Files
L11 =VE240115A03.D L1 =VE240115A04.D L2 =VE240115A06.D L3 =VE240115A08.D L4 =VE240115A09.D
L6 =VE240115A10.D L8 =VE240115A11.D L10 =VE240115A12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		2.617	3.230	2.974	2.953	3.007	3.273	3.171	3.032	7.36
91) TP	1,4-Dichlorobu		0.558	0.627	0.596	0.584	0.608	0.612	0.596	0.597	3.72
92) TP	1,1,2,2-Tetrac		0.431	0.431	0.443	0.443	0.451	0.463	0.437	0.443	2.60
93) TP	4-Ethyltoluene		2.181	2.705	2.578	2.552	2.566	2.759	2.665	2.572	7.36
94) TP	2-Chlorotoluene		1.642	1.911	1.848	1.771	1.785	1.847	1.839	1.806	4.75
95) TP	1,3,5-Trimethy		1.898	2.297	2.146	2.167	2.197	2.359	2.292	2.194	6.91
96) TP	1,2,3-Trichlor		0.340	0.373	0.358	0.353	0.367	0.374	0.369	0.362	3.41
97) TP	trans-1,4-Dich		0.094	0.126	0.132	0.132	0.138	0.142	0.138	0.129	12.66
98) TP	4-Chlorotoluene		1.701	1.993	1.901	1.864	1.889	1.989	1.953	1.899	5.29
99) TP	tert-Butylbenzene		1.704	2.038	1.813	1.801	1.825	1.997	1.921	1.871	6.34
102) TP	1,2,4-Trimethy		1.832	2.247	2.125	2.162	2.217	2.332	2.270	2.169	7.54
103) TP	sec-Butylbenzene		2.261	2.878	2.562	2.548	2.600	2.870	2.772	2.642	8.27
104) TP	p-Isopropyltol		1.897	2.459	2.268	2.265	2.294	2.489	2.465	2.305	8.90
105) TP	1,3-Dichlorobe		1.080	1.312	1.260	1.229	1.233	1.257	1.238	1.230	5.82
106) TP	1,4-Dichlorobe		1.185	1.292	1.254	1.236	1.234	1.249	1.250	1.243	2.55
107) TP	p-Diethylbenzene		1.196	1.428	1.311	1.359	1.373	1.467	1.517	1.379	7.71
108) TP	n-Butylbenzene		1.650	1.975	1.803	1.840	1.850	2.000	2.041	1.880	7.22
109) TP	1,2-Dichlorobe		1.099	1.238	1.168	1.156	1.161	1.165	1.177	1.166	3.49
110) TP	1,2,4,5-Tetram		1.847	2.166	2.080	2.139	2.116	2.330	2.335	2.145	7.72
111) TP	1,2-Dibromo-3-		0.045	0.064	0.075	0.075	0.077	0.082	0.080	0.071	18.20
112) TP	1,3,5-Trichlor		0.743	0.867	0.827	0.822	0.795	0.887	0.852	0.828	5.81
113) TP	Hexachlorobuta		0.195	0.250	0.213	0.208	0.200	0.240	0.225	0.219	9.32
114) TP	1,2,4-Trichlor		0.648	0.711	0.693	0.701	0.715	0.758	0.723	0.707	4.72
115) TP	Naphthalene		1.365	1.443	1.459	1.509	1.602	1.643	1.594	1.516	6.66
116) TP	1,2,3-Trichlor		0.566	0.594	0.594	0.597	0.632	0.652	0.633	0.610	4.92

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2408684	
Project Name	: U-HAUL FACILITY #873067		Project Number	: ES21-340263	
Instrument ID	: ELAINE		Calibration Date	: 02/18/24 16:28	
Lab File ID	: VE240218A01		Init. Calib. Date(s)	: 01/15/24	01/15/24
Sample No	: WG1886881-2		Init. Calib. Times	: 11:12	14:50
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	105	0
Dichlorodifluoromethane	0.267	0.253	-	5.2	20	104	0
Chloromethane	0.239	0.246	-	-2.9	20	102	0
Vinyl chloride	0.231	0.252	-	-9.1	20	108	0
Bromomethane	0.167	0.123	-	26.3*	20	77	0
Chloroethane	0.149	0.156	-	-4.7	20	103	0
Trichlorofluoromethane	0.339	0.349	-	-2.9	20	109	0
Ethyl ether	0.101	0.083	-	17.8	20	90	0
1,1-Dichloroethene	0.183	0.169	-	7.7	20	94	0
Carbon disulfide	0.565	0.602	-	-6.5	20	107	0
Freon-113	0.188	0.206	-	-9.6	20	119	0
Acrolein	0.023	0.021	-	8.7	20	99	0
Methylene chloride	0.223	0.215	-	3.6	20	95	0
Acetone	0.04	0.036	-	10	20	93	0
trans-1,2-Dichloroethene	0.201	0.203	-	-1	20	103	0
Methyl acetate	0.088	0.077	-	12.5	20	95	0
Methyl tert-butyl ether	0.485	0.427	-	12	20	95	0
tert-Butyl alcohol	0.01126	0.00963*	-	14.5	20	93	-.01
Diisopropyl ether	0.603	0.611	-	-1.3	20	105	0
1,1-Dichloroethane	0.379	0.41	-	-8.2	20	103	0
Halothane	0.162	0.157	-	3.1	20	101	0
Acrylonitrile	0.044	0.041	-	6.8	20	92	0
Ethyl tert-butyl ether	0.583	0.537	-	7.9	20	98	0
Vinyl acetate	0.349	0.332	-	4.9	20	101	0
cis-1,2-Dichloroethene	0.236	0.23	-	2.5	20	98	0
2,2-Dichloropropane	0.334	0.342	-	-2.4	20	105	0
Bromochloromethane	0.104	0.1*	-	3.8	20	90	0
Cyclohexane	0.34	0.393	-	-15.6	20	125	0
Chloroform	0.373	0.357	-	4.3	20	94	0
Ethyl acetate	0.124	0.107	-	13.7	20	99	0
Carbon tetrachloride	0.279	0.299	-	-7.2	20	109	0
Tetrahydrofuran	0.035	0.036	-	-2.9	20	106	0
Dibromofluoromethane	0.251	0.249	-	0.8	20	97	0
1,1,1-Trichloroethane	0.34	0.351	-	-3.2	20	105	0
2-Butanone	0.053	0.046	-	13.2	20	94	0
1,1-Dichloropropene	0.277	0.287	-	-3.6	20	109	0
Benzene	0.831	0.854	-	-2.8	20	104	0
tert-Amyl methyl ether	0.529	0.445	-	15.9	20	89	0
1,2-Dichloroethane-d4	0.269	0.259	-	3.7	20	99	0
1,2-Dichloroethane	0.263	0.256	-	2.7	20	100	0
Methyl cyclohexane	0.353	0.382	-	-8.2	20	123	0
Trichloroethene	0.211	0.205	-	2.8	20	101	0
Dibromomethane	0.12	0.107	-	10.8	20	91	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2408684	
Project Name	: U-HAUL FACILITY #873067		Project Number	: ES21-340263	
Instrument ID	: ELAINE		Calibration Date	: 02/18/24 16:28	
Lab File ID	: VE240218A01		Init. Calib. Date(s)	: 01/15/24	01/15/24
Sample No	: WG1886881-2		Init. Calib. Times	: 11:12	14:50
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.204	0.205	-	-0.5	20	103	0
Bromodichloromethane	0.289	0.28*	-	3.1	20	97	0
1,4-Dioxane	0.00146	0.00128*	-	12.3	20	89	0
cis-1,3-Dichloropropene	0.33	0.308	-	6.7	20	96	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.281	1.285	-	-0.3	20	101	0
Toluene	0.704	0.697	-	1	20	98	0
4-Methyl-2-pentanone	0.062	0.049	-	21*	20	83	0
Tetrachloroethene	0.304	0.294	-	3.3	20	99	0
trans-1,3-Dichloropropene	0.366	0.355	-	3	20	96	0
Ethyl methacrylate	0.257	0.196	-	23.7*	20	77	0
1,1,2-Trichloroethane	0.175	0.165*	-	5.7	20	96	0
Chlorodibromomethane	0.265	0.241	-	9.1	20	94	0
1,3-Dichloropropane	0.368	0.357	-	3	20	97	0
1,2-Dibromoethane	0.213	0.19*	-	10.8	20	89	0
2-Hexanone	0.108	0.083	-	23.1*	20	78	0
Chlorobenzene	0.794	0.768	-	3.3	20	95	0
Ethylbenzene	1.372	1.389	-	-1.2	20	99	0
1,1,1,2-Tetrachloroethane	0.279	0.261	-	6.5	20	94	0
p/m Xylene	0.545	0.536	-	1.7	20	95	0
o Xylene	0.54	0.525	-	2.8	20	94	0
Styrene	0.886	0.845	-	4.6	20	92	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	97	0
Bromoform	0.293	0.26	-	11.3	20	91	0
Isopropylbenzene	2.569	2.566	-	0.1	20	100	0
4-Bromofluorobenzene	0.885	0.858	-	3.1	20	97	0
Bromobenzene	0.637	0.6	-	5.8	20	92	0
n-Propylbenzene	3.032	3.116	-	-2.8	20	102	0
1,4-Dichlorobutane	0.597	0.579	-	3	20	95	0
1,1,2,2-Tetrachloroethane	0.443	0.431	-	2.7	20	95	0
4-Ethyltoluene	2.572	2.642	-	-2.7	20	100	0
2-Chlorotoluene	1.806	1.809	-	-0.2	20	95	0
1,3,5-Trimethylbenzene	2.194	2.254	-	-2.7	20	102	0
1,2,3-Trichloropropane	0.362	0.345	-	4.7	20	94	0
trans-1,4-Dichloro-2-buten	0.129	0.125	-	3.1	20	92	0
4-Chlorotoluene	1.899	1.903	-	-0.2	20	98	0
tert-Butylbenzene	1.871	1.859	-	0.6	20	100	0
1,2,4-Trimethylbenzene	2.169	2.207	-	-1.8	20	101	0
sec-Butylbenzene	2.642	2.722	-	-3	20	103	0
p-Isopropyltoluene	2.305	2.35	-	-2	20	101	0
1,3-Dichlorobenzene	1.23	1.219	-	0.9	20	94	0
1,4-Dichlorobenzene	1.243	1.219	-	1.9	20	95	0
p-Diethylbenzene	1.379	1.365	-	1	20	101	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684		
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263		
Instrument ID	: ELAINE	Calibration Date	: 02/18/24 16:28		
Lab File ID	: VE240218A01	Init. Calib. Date(s)	: 01/15/24	01/15/24	
Sample No	: WG1886881-2	Init. Calib. Times	: 11:12	14:50	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.88	1.97	-	-4.8	20	106	.01
1,2-Dichlorobenzene	1.166	1.127	-	3.3	20	94	0
1,2,4,5-Tetramethylbenzene	2.145	1.989	-	7.3	20	93	.01
1,2-Dibromo-3-chloropropan	0.071	0.06	-	15.5	20	78	0
1,3,5-Trichlorobenzene	0.828	0.776	-	6.3	20	91	.01
Hexachlorobutadiene	0.219	0.211	-	3.7	20	97	.02
1,2,4-Trichlorobenzene	0.707	0.625	-	11.6	20	88	.02
Naphthalene	1.516	1.208	-	20.3*	20	81	.02
1,2,3-Trichlorobenzene	0.61	0.512	-	16.1	20	84	.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684		
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263		
Instrument ID	: VOA108	Calibration Date	: 02/19/24 09:01		
Lab File ID	: V08240219A01	Init. Calib. Date(s)	: 01/09/24	01/09/24	
Sample No	: WG1887166-2	Init. Calib. Times	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	113	0
Dichlorodifluoromethane	0.191	0.23	-	-20.4*	20	132	0
Chloromethane	0.252	0.278	-	-10.3	20	124	0
Vinyl chloride	0.269	0.291	-	-8.2	20	117	0
Bromomethane	0.177	0.136	-	23.2*	20	90	0
Chloroethane	0.17	0.17	-	0	20	110	0
Trichlorofluoromethane	0.325	0.316	-	2.8	20	107	0
Ethyl ether	0.101	0.093	-	7.9	20	105	0
1,1-Dichloroethene	0.181	0.203	-	-12.2	20	126	0
Carbon disulfide	0.625	0.695	-	-11.2	20	127	0
Freon-113	0.191	0.218	-	-14.1	20	128	0
Acrolein	0.011	0.021	-	-90.9*	20	214	-.01
Methylene chloride	0.215	0.227	-	-5.6	20	123	0
Acetone	0.035	0.036	-	-2.9	20	120	0
trans-1,2-Dichloroethene	0.21	0.228	-	-8.6	20	124	0
Methyl acetate	0.088	0.089	-	-1.1	20	119	0
Methyl tert-butyl ether	0.478	0.463	-	3.1	20	116	0
tert-Butyl alcohol	0.00819	0.01107	-	-35.2*	20	159	0
Diisopropyl ether	0.696	0.728	-	-4.6	20	123	-.01
1,1-Dichloroethane	0.409	0.444	-	-8.6	20	123	0
Halothane	0.165	0.184	-	-11.5	20	124	0
Acrylonitrile	0.041	0.044	-	-7.3	20	125	0
Ethyl tert-butyl ether	0.649	0.646	-	0.5	20	119	0
Vinyl acetate	0.404	0.412	-	-2	20	113	0
cis-1,2-Dichloroethene	0.241	0.255	-	-5.8	20	121	0
2,2-Dichloropropane	0.332	0.352	-	-6	20	120	-.01
Bromochloromethane	0.113	0.119	-	-5.3	20	122	0
Cyclohexane	0.364	0.412	-	-13.2	20	127	0
Chloroform	0.389	0.409	-	-5.1	20	119	0
Ethyl acetate	0.137	0.131	-	4.4	20	113	0
Carbon tetrachloride	0.304	0.328	-	-7.9	20	119	0
Tetrahydrofuran	0.035	0.036	-	-2.9	20	118	0
Dibromofluoromethane	0.263	0.254	-	3.4	20	109	-.01
1,1,1-Trichloroethane	0.341	0.358	-	-5	20	118	0
2-Butanone	0.055	0.055	-	0	20	119	-.01
1,1-Dichloropropene	0.288	0.308	-	-6.9	20	121	0
Benzene	0.839	0.905	-	-7.9	20	125	0
tert-Amyl methyl ether	0.543	0.508	-	6.4	20	112	0
1,2-Dichloroethane-d4	0.28	0.268	-	4.3	20	105	0
1,2-Dichloroethane	0.278	0.272	-	2.2	20	114	0
Methyl cyclohexane	0.351	0.368	-	-4.8	20	121	0
Trichloroethene	0.219	0.236	-	-7.8	20	123	-.01
Dibromomethane	0.122	0.12	-	1.6	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2408684		
Project Name	: U-HAUL FACILITY #873067	Project Number	: ES21-340263		
Instrument ID	: VOA108	Calibration Date	: 02/19/24 09:01		
Lab File ID	: V08240219A01	Init. Calib. Date(s)	: 01/09/24	01/09/24	
Sample No	: WG1887166-2	Init. Calib. Times	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.227	0.24	-	-5.7	20	123	0
Bromodichloromethane	0.298	0.299*	-	-0.3	20	117	-.01
1,4-Dioxane	0.00078	0.00136*	-	-74.4*	20	177	-.01
cis-1,3-Dichloropropene	0.347	0.344	-	0.9	20	118	0
Chlorobenzene-d5	1	1	-	0	20	111	0
Toluene-d8	1.253	1.27	-	-1.4	20	111	0
Toluene	0.689	0.747	-	-8.4	20	120	0
4-Methyl-2-pentanone	0.067	0.059	-	11.9	20	102	0
Tetrachloroethene	0.295	0.314	-	-6.4	20	119	0
trans-1,3-Dichloropropene	0.381	0.379	-	0.5	20	115	0
Ethyl methacrylate	0.253	0.226	-	10.7	20	103	0
1,1,2-Trichloroethane	0.174	0.183*	-	-5.2	20	119	0
Chlorodibromomethane	0.276	0.276	-	0	20	115	0
1,3-Dichloropropane	0.361	0.373	-	-3.3	20	117	0
1,2-Dibromoethane	0.21	0.208	-	1	20	113	0
2-Hexanone	0.115	0.096	-	16.5	20	98	0
Chlorobenzene	0.807	0.858	-	-6.3	20	120	0
Ethylbenzene	1.337	1.398	-	-4.6	20	117	0
1,1,1,2-Tetrachloroethane	0.296	0.31	-	-4.7	20	120	0
p/m Xylene	0.531	0.554	-	-4.3	20	116	0
o Xylene	0.525	0.54	-	-2.9	20	115	0
Styrene	0.869	0.87	-	-0.1	20	113	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Bromoform	0.309	0.307	-	0.6	20	107	0
Isopropylbenzene	2.584	2.853	-	-10.4	20	113	0
4-Bromofluorobenzene	0.901	0.902	-	-0.1	20	103	-.01
Bromobenzene	0.654	0.71	-	-8.6	20	114	0
n-Propylbenzene	3.031	3.379	-	-11.5	20	114	0
1,4-Dichlorobutane	0.672	0.712	-	-6	20	111	0
1,1,2,2-Tetrachloroethane	0.466	0.495	-	-6.2	20	110	0
4-Ethyltoluene	2.599	2.863	-	-10.2	20	113	0
2-Chlorotoluene	1.837	2.024	-	-10.2	20	116	0
1,3,5-Trimethylbenzene	2.239	2.426	-	-8.4	20	111	0
1,2,3-Trichloropropane	0.379	0.394	-	-4	20	108	0
trans-1,4-Dichloro-2-buten	0.132	0.135	-	-2.3	20	101	-.01
4-Chlorotoluene	1.903	2.088	-	-9.7	20	113	0
tert-Butylbenzene	1.935	2.122	-	-9.7	20	112	0
1,2,4-Trimethylbenzene	2.204	2.353	-	-6.8	20	110	0
sec-Butylbenzene	2.815	3.061	-	-8.7	20	111	0
p-Isopropyltoluene	2.495	2.661	-	-6.7	20	108	0
1,3-Dichlorobenzene	1.306	1.413	-	-8.2	20	113	0
1,4-Dichlorobenzene	1.318	1.412	-	-7.1	20	113	0
p-Diethylbenzene	1.522	1.595	-	-4.8	20	109	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2408684		
Project Name	: U-HAUL FACILITY #873067	**Project Number**	: ES21-340263		
Instrument ID	: VOA108	**Calibration Date**	: 02/19/24 09:01		
Lab File ID	: V08240219A01	**Init. Calib. Date(s)**	: 01/09/24	01/09/24	
Sample No	: WG1887166-2	**Init. Calib. Times**	: 17:17	20:58	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.081	2.246	-	-7.9	20	109	0
1,2-Dichlorobenzene	1.213	1.283	-	-5.8	20	110	0
1,2,4,5-Tetramethylbenzene	2.462	2.455	-	0.3	20	103	0
1,2-Dibromo-3-chloropropan	0.072	0.072	-	0	20	101	0
1,3,5-Trichlorobenzene	0.956	0.983	-	-2.8	20	106	0
Hexachlorobutadiene	0.388	0.371	-	4.4	20	97	0
1,2,4-Trichlorobenzene	0.838	0.811	-	3.2	20	102	0
Naphthalene	1.64	1.544	-	5.9	20	98	0
1,2,3-Trichlorobenzene	0.744	0.703	-	5.5	20	99	0

* Value outside of QC limits.

Metals Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Metals Data for
Alpha Analytical Labs, SDG Number: L2408684

2 Ground Water Samples, 1 Field Duplicate,
and 1 Field Blank
Collected February 15, 2024

Prepared by: Donald Anné
February 29, 2024

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for iron and manganese were within control limits (90-110%).

Blanks: The analyses of initial and continuing calibration, method, and field blanks reported iron and manganese as either not detected or below the reporting limits, as required.

ICP Interference Check Sample: The percent recovery for iron was within control limits (80-120%).

Spike Sample Recovery: One of two percent recoveries for manganese was above control limits (75-125%) for aqueous MS/MSD sample MW-8. Positive results for manganese should be considered estimated, biased high (J+) in associated aqueous samples

Laboratory Duplicates: The relative percent differences for manganese and iron were below the allowable maximum (20%) for aqueous MS/MSD sample MW-8, as required.

Field Duplicates: The relative percent differences for iron and manganese were above the allowable maximum (20%) for aqueous field duplicate pair MW-8/DUP-1 (attached table). Positive results for iron and manganese should be considered estimated (J) in samples MW-8 and DUP.

Laboratory Control Sample: The percent recoveries for iron and manganese were within control limits (80-120%) for aqueous sample WG1886950-2.

Serial Dilution: The %Ds for iron and manganese were below the allowable maximum (10%) for aqueous serial dilution sample MW-8, as required.

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Form 5a
Matrix Spike

Client	:	Partner Engineering & Science, Inc.	Lab Number	:	L2408684
Project Name	:	U-HAUL FACILITY #873067	Project Number	:	ES21-340263
Client Sample ID	:	MW-8	Matrix	:	WATER
Lab Sample ID	:	L2408684-01			
Matrix Spike	:	WG1886950-3	MS Analysis Date	:	02/23/24 06:27
Matrix Spike Dup	:	WG1886950-4	MSD Analysis Date	:	02/23/24 06:32

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Iron, Total	10.9	1	12.7	NA	1	12.9	NA	2	75-125	20
Manganese, Total	1.101	0.5	1.661	124	0.5	1.704	133 Q	3	75-125	20

NA - Sample concentration is greater than 4X the piking level; therefore, the %R is not applicable.

Field Duplicate Calculation Section

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2408684

S1= MW-8 **S2=** DUP

Analyte	S1	S2	RPD (%)	
Benzene	1.2	1.3	8%	
Toluene	**2.3**	2.9	NC	
Ethylbenzene	14	22	44%	*
p/m-Xylene	5.3	7.1	29%	*
o-Xylene	6.2	7.0	12%	
Xylenes, Total	12	14	15%	
Acetone	24	23	4%	
Isopropylbenzene	**1.9**	2.6	31%	*
p-Isopropyltoluene	2.8	2.8	0%	
Naphthalene	ND	**0.81**	NC	
n-Propylbenzene	2.8	3.8	30%	*
1,3,5-Trimethylbenzene	**1.0**	**1.2**	NC	
1,2,4-Trimethylbenzene	51	59	15%	
p-Diethylbenzene	6.6	6.6	0%	
p-Ethyltoluene	4.6	4.7	2%	
1,2,4,5-Tetramethylbenzene	18	19	5%	

* RPD is above the allowable maximum 20%.

Results are in units of ug/l.

Bold numbers were values that are below the CRQL or above the high standard.
ND - Not detected.
NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

TAL Metals

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2408684

S1= MW-8 **S2=** DUP

Analyte	S1	S2	RPD (%)	
iron	10.9	7.29	40%	*
manganese	1.101	0.1205	161%	*

* RPD is above the allowable maximum 20%.

Results are in units of mg/L.

Bold numbers were values that are below the CRDL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.