



**SITE INVESTIGATION REPORT**

**1144 Eddy Street  
Assessor's Plat Map 57, Lot 291  
Providence, Rhode Island 02905  
RIDEM Case No. SR-28-2076**

*Submitted to:*

**Rhode Island Department of Environmental Management  
Office of Land Revitalization & Sustainable Materials Management  
Site Remediation Program  
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*On Behalf of:*

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**SAGE Project No. S3977**

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## **1.0 INTRODUCTION, BACKGROUND, AND OBJECTIVES (1.8.3(A)(1))**

SAGE Environmental, Inc. (SAGE), on behalf of 1144 Eddy Street, LLC, has prepared this Site Investigation Report (SIR) for the property located at 1144 Eddy Street in Providence, Rhode Island and identified by the City of Providence Assessor's Office as Assessor's Plat Map 57, Lot 291 (hereinafter, "Site"). The Site consists of one 0.39-acre parcel of land.

The Site is developed with an approximately 40,700-square foot, three-story, brick and concrete industrial building with a partial basement, constructed in 1925. Between 1944 and 2017, Site occupants included the Federal Products Corporation (Federal Products), Auxitrol-USA, Bayside Federal Credit Union, Mahr Federal Inc., and Mahr, Inc. Federal Products used the Site as a precision machining measuring device manufacturing facility. The Federal Products facility comprised several parcels of land, with the Site being historically identified as "Plant 1".

A United States Geological Survey (USGS) Quadrangle Site Location Map showing the location of the Site relative to pertinent geographic features is included in **Figure 1**, and a plan depicting the Site boundaries and other relevant features is included in **Figure 2**. This SIR is subject to the limitations presented in **Appendix A**.

This SIR summarizes the work that was completed to assess the nature and extent of contamination discovered during subsurface investigation activities and to present remedial alternatives to achieve compliance with the Rhode Island Department of Environmental Management (RIDEM) *Rules and Regulations of the Investigation and Remediation of Hazardous Material Releases*, as amended April 22, 2020 (the "*Remediation Regulations*"). This SIR provides the information required under Section 1.8 of the *Remediation Regulations* and provides an evaluation of remedial approaches along with the selection of the approach to address contamination identified at the Site. A completed SIR Checklist is included in **Appendix B**.

The investigation consisted of the collection and laboratory analysis of soil, groundwater, sub-slab soil gas, and indoor air samples to assess the nature and extent of contamination, address the potential for vapor intrusion into the Site building, and to evaluate and identify a proposed remedy.

SAGE has worked collaboratively with RIDEM throughout the Site investigation process and submitted a *Hazardous Materials Release Notification Form* (RNF), on behalf of 1144 Eddy Street, LLC, to RIDEM on March 25, 2022. RIDEM subsequently issued a Letter of Responsibility (LOR) on April 11, 2023. Copies of the RNF and LOR are included in **Appendix C**.

## **2.0 INFORMATION FROM NOTIFICATION OF RELEASE (1.8.3(A)(2))**

As described above, an RNF for the Site was submitted to RIDEM on March 25, 2022.

## **3.0 DOCUMENTATION OF PAST INCIDENTS OR RELEASES (1.8.3(A)(3))**

A public records search consisting of a review of state and federal databases was conducted by Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. Databases reviewed include, but are

not limited to, the National Priority List (NPL), the Superfund Enterprise Management System (SEMS, formerly CERCLIS), Rhode Island State-listed hazardous waste properties (SHWS), leaking underground storage tanks (LUSTs), registered underground storage tanks (USTs), and the Resource Conservation and Recovery Act (RCRA) hazardous waste generator list. The EDR report included the following information pertinent to the Site:

- According to the U.S. EPA FRS Facility Detail Report, Federal Products was registered as manufacturing instruments and related products for measuring, displaying, and controlling industrial process variable (NAICS Code 334513). In addition, the Standard Industrial Classification (SIC) code for the Site is listed as: Process control Instruments (SIC Code 3823), and Engineering and Scientific Instruments (SIC Code 3811). The last update of this information was in 2014.
- On June 10, 1995, RIDEM received notification that approximately four to five gallons of hydraulic oil was discharged to approximately 500 square feet of asphalt surface on two “lots” owned by Federal Products, and a portion of Aldrich Street. The release originated from parking lot sweeper truck, operated by J & J Sweeping, Inc., which had a hole in a hydraulic line. Response actions included the application of sorbent “mats” and recovery of approximately ten cubic yards of sorbent material. The spent sorbent material was reportedly added to the Federal Products production process waste stream (i.e., oily debris) to be disposed of as regulated waste. On June 12, 1995, a “very slight” oil sheen was observed due to a rain event. No disposal documentation, maps depicting the location of the release, or additional information was provided.
- Federal Products was registered as having a minor air permit from at least 1985 through 1995. Air pollutants identified on the U.S. EPA website include volatile organic compounds (VOCs), total particulate matter, and chromium compounds. Based on files reviewed at RIDEM, the Air Permits are associated with the portion of the Federal Products facility at 1139 Eddy Street, not the Site. The Site was not listed as having any stacks, or associated discharges.

#### 4.0 PAST OWNERS AND OPERATORS AND SITE HISTORY (1.8.3(A)(4))

Based on information reviewed through the City of Providence Assessor’s Office, the following provides a list of the available prior property owners, including a sequence of property transfers.

Grantee	Date of Transfer	Book/Page
1144 Eddy Street LLC	April 19, 2022	13558/289
Federal Products Corporation	December 6, 1966	1140/270
Laredef Realty Operators, Inc.	November 23, 1951	990/251
Federal Products Corporation	August 10, 1943	855/320 (Parcel No. 2)
Transferred from Plat 54, Lot 797 (Frank Farnham)		
<b>Plat 54, Lot 797</b>		
Frank E. Farham	September 4, 1924	662/378
Henry L. Aldrich and Charles T. Aldrich	Unknown	Unknown

As noted in the table above, the Site was transferred to 1144 Eddy Street LLC on April 19, 2022. On March 25, 2022, SAGE, on behalf of 1144 Eddy Street LLC, notified the RIDEM of the property transaction. A copy

of the correspondence is included in **Appendix C**. Additional information regarding former Site occupants and Site history is included in **Sections 4.2** and **4.3** below.

#### 4.1 Aerial Photographs

SAGE reviewed aerial photographs dated 1939, 1951-1952, 1962, 1972, 1981, 1988, 1997, 2008, 2011, 2014, 2018, 2019, 2020, 2021, and 2022 using RIDEM Environmental Resource Mapping tool (<https://ridemgis.maps.arcgis.com/apps/webappviewer/index.html?id=87e104c8adb449eb9f905e5f18020de5>). A summary of the Site and surrounding property descriptions is included below.

Year	Aerial Photo Description
1939	The Site appears to be developed with a structure, located in the same approximate location and configuration as the existing Site building. Cass Street appears to be unpaved. The existing Narragansett Electric substation at 1150 Eddy Street is visible to the south of the Site. Land located southeast of the Site is undeveloped. The existing bulk petroleum storage facility and associated buildings, at what is now 1116 Eddy Street, are visible to the north.
1951-52	There are no apparent changes to the Site. Industrial buildings are visible on what are now 130 and 150 Ernest Street. Three additional bulk petroleum storage tanks are visible to the north of the Site.
1962	The Site building appears to be unchanged. An industrial building is visible west of the Site at what is now 1139 Eddy Street (part of the Federal Products complex), and the industrial buildings at 130 and 50 Ernest Street have been expanded.
1972	There are no significant changes to the Site. The Federal Products building at 1139 Eddy Street has been expanded and similar to current conditions, located to the west of the Site is visible. Interstate 95 is visible to the north and northwest of the Site.
1981	There are no significant changes to the Site or abutting properties.
1988	Modification to a portion of the Site building roof is visible. There are no other significant changes to the Site or abutting properties.
1997	There are no significant changes to the Site or abutting properties.
2008	There are no significant changes to the Site. The electrical infrastructure that was historically located in the Narragansett Electric sub-station (1150 Eddy Street), appears to be removed. There are no other significant changes to the Site or abutting properties.
2011, 2014, 2018, 2019, 2020, 2021, and 2022	Similar to current conditions.

Copies of the historical aerial photographs are included in **Appendix D**.

#### 4.2 Sanborn Fire Insurance Maps

Sanborn fire insurance maps were reviewed via an EDR Certified Sanborn Map Report. Sanborn fire insurance maps were available for the Site and surrounding area beginning in 1900. The following is a summary of the Sanborn maps reviewed.

Year	Sanborn Map Description
1900	Sanborn Map coverage of the Site, and abutting properties located to the south, north, and east, is not available. Properties located to the west of the Site are depicted as residential properties.
1921	The Site is comprised of four (4) vacant parcels of land. Residential dwellings and vacant parcels of land are located to the west and south of the Site. The parcel of land located north of the Site is noted as being the "Proposed Site of S.N.E.R.R", beyond which is a residential dwelling and associated garage.
1950	The Site building is identified as a three (3) story structure, with a small one (1) story area on the northern portion of the building. The building is equipped with an automatic sprinkler system, a fire escape on the west side, a fireproof vault in the approximate center of the building, stairs on the west, north and east sides, and an elevator on the north side. An unknown feature (4' FR ON RF) is depicted in the southeast side of the building. The Site occupant, or owner, is listed as the Federal Products Corp (Instrument MFG). A Siamese fire department connection is depicted on the northeast side of the building. An 8-inch water line is depicted in Ernest Street and Eddy Street, and Cass Street is noted as being unpaved.  The Narragansett Electric sub-station and transformer yard is located south of the Site (1150 Eddy Street), the Texas Gasoline Storage Yard, and associated buildings and bulk storage gasoline tanks are located to the north (1116 Eddy Street), residential dwellings and an auto painting facility are located to the west (1139 Eddy Street), and residential dwellings a restaurant and an auto glass store are located south southwest of the Site.
1956	There are no significant changes to the Site or abutting properties.
1972	There are no significant changes to the Site; however, the Federal Products operation has expanded onto the west-abutting property at 1139 Eddy Street. Textile and jewelry manufacturing operations are depicted southeast of the Site.
1977	There are no significant changes to the Site or abutting properties.
1982	There are no significant changes to the Site or abutting properties.

A copy of the EDR Certified Sanborn Map Report is included in **Appendix D**.

#### 4.3 Local Street Directories

City directories were reviewed via an EDR City Directory Report. Directories were available beginning in 1938. The following is the result of this research.

Year	Owner
2017	Federal Products Corp An Esterline C.
2014	Federal Products Corp An Esterline C, Mahr Federal Inc.
2010	Mahr Federal Inc.
2005	Bayside Federal Credit Union, Federal Products Corp., Federal Products Corp An Esterline C
2000	Bayside Federal Credit Union, Federal Products Incorporated, Federal Products, Federal Products Corporation An Esterline Company
1995	Bayside Federal Credit Union, Federal Products Corp An Esterline Co, Federal Products Corporation An Esterline Company
1992	Auxitrol-USA, Federal Products Corporation An Esterline Company
1988	Federal Products Corp (gauge mfrs), Esterline Corp (Fed Products)

Year	Owner
1983	Federal Products Corp (precision instruments), Esterline Corp (Fed Products)
1978	Federal Products Corp (precision instruments)
1974	Federal Products Corp (precision instruments)
1969	Federal Products Corp (dials & gauges)
1964	Federal Products Corp (dials & gauges)
1961	Federal Products Corp (gauge mfrs)
1957	Federal Products Corp (tool mfrs)
1950	Federal Products Corp (tool mfrs)
1944	Federal Products Corp (tool mfrs)
1938	Jewelers' Supply Co Inc., Federal Products Corp (tools)

A copy of the EDR City Directory Report is included within **Appendix D**.

## 5.0 PREVIOUSLY EXISTING ENVIRONMENTAL INFORMATION (1.8.3(A)(5))

In September 2021 and November 2021 through January 2022, SAGE completed a Phase I Environmental Site Assessment (ESA) and a Limited Subsurface Investigation (LSI) on behalf of 1144 Eddy Street LLC. The key findings of the Phase I ESA are listed below.

- Historical Site Use:** The Site was used for the manufacturing of precision machining measuring devices from at least 1938 through the early 1990s, for photo-chemical operations from an unknown date through 1990, and by the Jewelers Supply Company in 1938. Historically, hazardous waste was generated at the Site; however, because the waste streams were merged with those generated at 1139 Eddy Street, it is unclear which waste streams were generated at the Site. Limited information exists regarding the historical layout of the Site building, and associated manufacturing infrastructure; however, an “acid line” is depicted on a document provided by the City of Providence Public Works Department. SAGE concluded that historical on-Site industrial operations could have affected environmental conditions at the Site.
- National Grid – Field’s Point Substation (1150 Eddy Street):** On September 30, 1994, RIDEM was verbally notified of staining observed on concrete foundations supporting oil-filled electrical equipment. Subsequent soil sampling documented the presence of polychlorinated biphenyls (PCB) and total petroleum hydrocarbons (TPH) in soil at concentrations above the applicable RIDEM Direct Exposure Criteria. Remedial actions included the excavation and off-site disposal of 168.85 tons of impacted soil. Post-excavation soil samples documented residual TPH concentrations up to 14,400 milligrams per kilogram (mg/kg), and PCB concentrations up to 4 mg/kg. No additional excavation was completed due to structural concerns. Because the vertical and horizontal extent of TPH contaminated soil was not delineated and no assessment of groundwater was completed and given that the area of TPH contaminated soil is within approximately 45 to 55 feet of the Site, SAGE concluded that the release at the Field’s Point Substation could affect environmental conditions at the Site.

- **Surrounding Land Use:** The Site is located within an industrial area of Providence, with documented land filling. Local land use documented on Sanborn Maps throughout the last century includes, but is not limited to, manufacturing (i.e., jewelry, plastics, metals), a petroleum fuel distribution facility, and an electrical substation. SAGE concluded that historical filling and industrial operations near the Site could have affected environmental conditions at the Site.

Based on the results of the Phase I ESA, SAGE recommended completion of an LSI, including sampling of Site soils, groundwater, sub-slab soil gas, and indoor air. The key findings of the LSI are:

1. **Soil:** Arsenic, beryllium, and select polycyclic aromatic hydrocarbons (PAHs) were detected at concentration above RIDEM Method 1 Residential Direct Exposure Criteria (R-DEC) and/or Industrial/Commercial Direct Exposure Criteria (I/C-DEC);
1. **Groundwater:** samples collected for volatile organic compounds (VOCs) did not reveal target analyte concentrations exceeding applicable RIDEM Method 1 GB Groundwater Objectives (GB-GWO);
2. **Sub-Slab Soil Gas:** 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE) were detected at concentrations above the Massachusetts Department of Environmental Protection (MassDEP) Residential Sub-Slab Soil Gas Screening Values (R-SSSGSVs) and/or MassDEP Commercial/Industrial Sub-Slab Soil Gas Screening Values (C/I-SSSGSVs); and,
3. **Indoor/Ambient Air:** Bromodichloromethane, cis-1,2-DCE, naphthalene, PCE and TCE were detected at concentrations above the MassDEP Residential Threshold Values (R-TV<sub>s</sub>) and/or Commercial/Industrial Threshold Values (C/I-TV<sub>s</sub>).

## 6.0 CURRENT USES AND ZONING (1.8.3(A)(6))

### 6.1 Zoning

According to the City of Providence Base Zoning Map (Approved December 21, 2022), the Site is zoned as M-MU-75 (Mixed-Use Industrial District) with an Historic District Overlay.

### 6.2 Current Site Usage

The Site is improved with an approximate 40,674-square foot, three (3) story structure, brick, and concrete constructed building. The western portion of the building is built slab-on-grade, and the eastern portion includes basement. The building was most recently utilized as office space and is currently vacant with the exception of some storage for a solar company on the first floor.

### 6.3 Waste Generated and Hazardous Materials Handled

No hazardous materials are currently generated or handled at the Site. However, as noted earlier, the Site does have an industrial/ manufacturing history where chemical handling and use would be expected.

#### **6.4 Residential Activity**

Pursuant to Section 1.4(A)(68) of the *Remediation Regulations*, “Residential activity” means any activity related to a residence or dwelling, including but not limited to a house, apartment, or condominium, or school, day care center, playground, or Recreational Facility for Public Use.

Under this definition, the Site is not currently utilized for residential purposes. However, the Site may be used for housing in the future, and as such, the remedial action evaluation herein considers cleanup efforts as it relates to indoor air to achieve compliance with MassDEP Residential Threshold Values.

#### **7.0 LOCUS MAP (1.8.3(A)(7))**

A Locus Map showing the location of the Site using the USGS 7.5 minute quadrangle map and relative to pertinent geographic features is included in **Figure 1**.

#### **8.0 SITE PLAN (1.8.3(A)(8))**

A Site Plan depicting sample locations and relevant Site features is included in **Figure 2**.

#### **9.0 GENERAL CHARACTERIZATION OF SURROUNDING AREA (1.8.3(A)(9))**

The following provides a general characterization of the property surrounding the area affected by the release:

- According to the RIDEM Environmental Resource Map, referenced on April 27, 2023:
  - No surface water bodies are located within 500 feet of the Site;
  - No Environmentally Sensitive Areas, as defined by the *Remediation Regulations* (Section 1.4(A)(21)), are located within 500 feet of the Site;
  - No public water supplies are located within one mile of the Site;
  - The underlying groundwater classification of the Site and surrounding area is “GB.” GB areas are defined as “groundwater resources which are known or presumed to be unsuitable for drinking water use without treatment”; and,
  - The Site is located within an Environmental Justice (EJ) Focus Area.
- Potable water for the Site and surrounding area is provided by the municipal water system operated by the Providence Water Supply Board; and,

A copy of the RIDEM Environmental Resource Map is included as **Figure 3**.



## **10.0 CLASSIFICATION OF SURFACE WATER AND GROUNDWATER (1.8.3(A)(10))**

As previously noted, the underlying groundwater classification at the Site and surrounding area is “GB.” GB areas are defined as “groundwater resources which are known or presumed to be unsuitable for drinking water use without treatment.”

The nearest mapped surface water feature is the Sassafras Cove, which is part of the Providence River, located approximately 2,480 feet northeast of the Site. The surface water classification of the Providence River is “Class SB1.” Class SB1 waters are designated for primary and secondary contact recreational activities and fish and wildlife habitat. They shall be suitable for aquacultural uses (other than shellfish for direct human consumption), navigation, and industrial cooling. These waters shall have good aesthetic value. Primary contact recreational activities may be impacted due to pathogens from approved wastewater discharges.

## **11.0 DESCRIPTION OF CONTAMINATION (1.8.3(A)(11))**

As previously noted, SAGE completed a Phase I ESA and a Phase II LSI at the Site, which forms the basis for this SIR. A description of the environmental investigation at the Site, including sampling locations, sampling procedures, and copies of analytical results, is provided below.

### **11.1 Soil/Groundwater Regulatory Classification**

SAGE reviewed the *Remediation Regulations* to identify the applicable soil criteria for soils at the Site. Pursuant to Section 1.9.1 and 1.9.2 of the *Remediation Regulations*, the R-DEC, and the GB Leachability Criteria (GB-LC) apply to soils at the Site.

As previously noted, the groundwater classification at the Property is GB. Pursuant to Section 1.9.3 of the *Remediation Regulations*, the GB-GWO applies to groundwater at the Site.

### **11.2 Environmental Investigation and Concentrations of Hazardous Substances in Excess of Remedial Objectives**

#### **11.2.1 Soil Borings, Soil Sample Collection, and Monitoring Well Installation – 100 Series (November 19, 2021)**

Prior to advancing soil borings, SAGE marked the areas to be investigated and contacted DigSafe such that underground utilities could be marked prior to commencement of field work. On November 19, 2021, SAGE oversaw the advancement of five (5) soil borings (SE-101 through SE-105) at select locations throughout the Site.

SAGE EnviroTech Drilling Services, Inc. completed the soil borings SE-101, SE-102 and SE-105 using a track-mounted Geoprobe® direct-push drill rig. Soil borings SE-103 and SE-104 were advanced utilizing hand augers. Of the five (5) soil borings, three (3) were subsequently completed as groundwater monitoring wells as follows: SE-101(MW), SE-102(MW) and SE-105(MW). The groundwater monitoring wells were



installed to roughly bisect the water table interface. The monitoring wells were constructed with one-inch-diameter, thread coupled, machine-cut, 0.010-inch slot well screen. The wells were completed with gripper plugs, and road boxes mounted flush with the ground surface to limit disturbance and surface water infiltration. Upon completion, the wells were developed with a peristaltic pump to reduce sample turbidity by removing fine particulate matter (clay and silt) from the filter pack and the geologic formation near the well intake, enhancing inflow to the well. Soil boring and monitoring well locations are depicted on **Figure 2**.

During soil boring advancement, continuous soil samples were collected in two-foot to five-foot intervals and field screened for the presence of organic compounds in the form of total volatile organic vapor (TVOV). TVOV field screening was conducted *via* jar-headspace methodology using a photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp and calibrated to 100 parts per million by volume (ppmV) isobutylene standard. TVOV screening values for the 100 series samples were < 1 ppmV. TVOV screening results are summarized in **Table 1**.

Borings were advanced to a terminal depth of approximately 2 to 40 feet below surface grade (BSG). Subsurface soil conditions observed during soil boring advancement consisted predominantly of silty fine to medium-sized sand. Groundwater was encountered at depths ranging from 29 to 32 feet BSG. Soil lithology observations and monitoring well construction details are provided in the Soil Boring/Monitoring Well Logs included as **Appendix E**.

#### 11.2.2 Soil Sampling and Analysis – 100 Series (November 19, 2021)

Select soil samples collected were placed in a cooler on ice, and submitted under chain-of-custody protocol to a state-certified laboratory for one or more of the following analyses:

1. Volatile organic compounds (VOCs) *via* U.S. Environmental Protection Agency (EPA) Method 8260C;
2. TPH *via* modified EPA Method 8015D;
3. PAHs *via* EPA Method 8270D;
4. Priority pollutant 13 (PP13) metals *via* EPA Methods 6010D and 7471B; and/or,
5. PCBs *via* EPA Method 8082A.

The analytical results of soil samples are summarized in **Table 2**, attached, which provides a summary of all analytes detected above laboratory reporting limits. It should be noted that analytes that were not detected are not listed in the table. A complete list of analytes tested is included in the laboratory analytical report included in **Appendix F**. The spatial distribution of contaminants detected in soil is depicted on the Soil Analytical Results Plan included as **Figure 4**.

A summary of the soil analytical detections is provided below.

- Arsenic and benzo(a)pyrene were detected at concentrations above the applicable R-DEC and I/C-DEC in shallow soil samples SE-103 (0'-2') and SE-104 (0'-2');

- Beryllium and select PAHs were detected at concentrations above the R-DEC but below the I/C-DEC in soil samples SE-103 (0'-2') and SE-104 (0'-2'); and
- Beryllium was detected at a concentration above the R-DEC but below the I/C-DEC in soil sample SE-105 (0'-2').

### 11.2.3 Groundwater Sampling and Analysis – 100 Series (November 22, 2021)

On November 22, 2021, SAGE collected groundwater samples from the three (3), newly-installed monitoring wells. Prior to collecting groundwater samples, SAGE gauged each monitoring well using an oil/water interface probe to determine the depth to groundwater and to assess for the presence and/or absence of non-aqueous phase liquid (NAPL). NAPL was not detected during the monitoring well gauging. Measured static depth to groundwater ranged between 28.71 to 31.71 feet below the top of the inner road box collar. Groundwater gauging data are summarized in **Table 3**.

Following the gauging, each monitoring well was purged a minimum of three (3) static well volumes utilizing a low-flow peristaltic pump with dedicated tubing. The tubing was deployed at a depth approximately equivalent to the mid-screen point or the mid-water column height of the monitoring well, as applicable. A Geotech portable turbidity meter was used to document a turbidity of less than 5 Nephelometric Turbidity Units (NTUs) prior to sample collection. Upon completion of purging, groundwater samples were collected from each monitoring well, placed in a cooler with ice, and were submitted under chain-of-custody protocol to a state-certified laboratory for analysis of VOCs via U.S. EPA Method 8260C.

The detected analytical results obtained from groundwater samples collected are summarized in **Table 4**, attached, which provides a summary of all analytes detected above laboratory reporting limits. It should be noted that analytes that were not detected are not listed in the table. A complete list of analytes tested is included in the laboratory analytical reports included in **Appendix G**. The spatial distribution of contaminants detected in groundwater is depicted on the Groundwater Analytical Results Plan included as **Figure 5**.

As indicated in **Table 4**, the results of groundwater sampling identified low levels of chlorinated VOCs including TCE, PCE and 1,1-DCA at concentrations above laboratory reporting limits but well below the applicable RIDEM Method 1 GB-GWOs in select monitoring wells.

### 11.2.4 Sub-Slab Soil Gas Point Installation, Sampling, and Analysis (November 2021)

On November 19, 2021, SAGE installed a total of four (4) sub-slab soil gas points (SE-SG-101 through SE-SG-103 and SE-SG-105) through the concrete slab floor of the Site building. Soil gas points SE-SG-101 through SE-SG-103 were installed in the eastern basement portion of the Site building. Soil gas point SE-SG-105 was installed in the western slab-on-grade portion of the Site building. No soil gas point "SE-SG-104" was installed during the Site investigation.

The sub-slab soil gas points were installed using Vapor Pins<sup>®</sup>. The standard operating procedure for the installation, sampling, and extraction of the Vapor Pin<sup>®</sup>, which includes photographs, is enclosed for reference as **Appendix H**. The sub-slab soil gas point locations are depicted in **Figure 2**.

On November 22, 2021, SAGE purged each of the sub-slab soil gas points using a PID equipped with a 10.6 eV lamp and calibrated to a 100 ppmV isobutylene standard. Following purging, each sub-slab soil gas sample was collected over a 30-minute period into laboratory provided Summa canisters and then submitted under chain-of-custody protocol to a state-certified laboratory for analysis of VOCs *via* U.S. EPA Method TO-15.

The analytical results of sub-slab soil gas samples collected by SAGE are summarized in **Table 5**, which provides a summary of all analytes detected above laboratory reporting limits and analytes for which the laboratory reporting limit is above the applicable MassDEP R-SSSGSVs and C/I-SSSGSVs established in MassDEP Policy #WSC-16-435: *Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure Policy* (the “VI Guidance”).

Because RIDEM has not established soil gas standards or guidance values, sub-slab soil gas analytical results were compared to the MassDEP R-SSSGSVs and C/I-SSSGSVs. It should be noted that analytes that were not detected are not listed in the table. A complete list of analytes tested is included in the laboratory analytical report included in **Appendix I**. The spatial distribution of contaminants detected in sub-slab soil gas is depicted on the Sub-Slab Soil Gas and Indoor/Ambient Air Analytical Results Plan included in **Figure 6**.

A summary of the sub-slab soil gas analytical detections is provided below.

- SE-SG-101: 1,1,1-TCA and cis-1,2-DCE were detected at concentrations above the MassDEP R-SSGSVs. PCE and TCE were detected at concentrations exceeding both the R-SSSGSVs and C/I-SSSGSVs. All other analytes, where detected, were below the corresponding screening values;
- SE-SG-102: PCE was detected at a concentration above the MassDEP R-SSSGSV. TCE was detected at a concentration exceeding both the MassDEP R-SSSGSV and C/I-SSSGSV. All other analytes, where detected, were below the corresponding screening values;
- SE-SG-103: 1,1,1-TCA, 1,1-DCA and cis-1,2-DCE were detected at concentrations above the MassDEP R-SSSGSVs. PCE was detected at a concentration exceeding both the R-SSSGSV and C/I-SSSGSV. All other analytes, where detected, were below the corresponding screening values;
- SE-SG-105: All analytes, where detected, were below the corresponding MassDEP screening values.

#### 11.2.5 Soil Borings, Soil Sample Collection, and Monitoring Well Installation – 200 Series (December 21, 2021)

On December 21, 2021, SAGE returned to the Site to oversee the advancement of four (5) soil borings (SE-201 through SE-205) by SAGE Enviro-Tech Drilling Services utilizing hand tools. Each boring was advanced in the eastern basement portion of the Site building. These borings were focused in the area where elevated soil gas concentrations were detected to evaluate what levels of VOCs may be present in soil under the building slab.

While advancing the borings, continuous soil samples were collected in approximate two-foot intervals. All collected samples were field screened for the presence volatile compounds in the form of TVOVs via

the jar headspace method using a PID equipped with a 10.6 electron volt lamp calibrated to 100 ppmV isobutylene standard. TVOV screening values for the 200 series samples ranged from < 1 to 7.5 ppmV. TVOV screening results are summarized in **Table 1**.

Borings were advanced to a terminal depth of approximately 6 feet BSG. Subsurface soil conditions observed during soil boring advancement consisted predominantly of silty to medium-sized sand. Groundwater was not encountered. Soil lithology observations are provided in the Soil Boring Logs included as **Appendix E**.

#### 11.2.6 Soil Sampling and Analysis – 200 Series (December 21, 2021)

Select soil samples collected were placed in a cooler on ice and submitted under chain-of-custody protocol to a state-certified laboratory for VOCs via EPA Method 8260C.

The analytical results of soil samples collected by SAGE are summarized in **Table 2**, which provides a summary of all analytes detected above laboratory reporting limits. VOCs including ethylbenzene, xylenes, TCE and/or PCE were detected in five (5) of the six (6) 200 series soil samples at concentrations below the applicable RIDEM Method 1 R-DEC and GB-LC. VOCs in soil may be a source of the detected concentrations in soil gas.

A complete list of analytes tested is included in the laboratory analytical report included in **Appendix F**. The spatial distribution of contaminants detected in soil is depicted on the Soil Analytical Results Plan included as **Figure 4**.

#### 11.2.7 Indoor/Ambient Air Sampling and Analysis – 100 Series (December 20, 2021)

On December 20, 2021, SAGE deployed passivated summa canisters equipped with 24-hour flow controllers within the and adjacent to the Site building. Three (3) indoor air samples were collected: sample SE-IA-101 was collected from the eastern basement, sample SE-IA-102 was collected from the western basement, and sample SE-IA-103 was collected from the ground floor near the west end of the Site building. The ambient air sample, SE-AA-101, was collected along the western exterior wall of the Site building.

Each summa canister was deployed for approximately 24 hours and transported utilizing proper chain-of-custody protocol to a State-certified laboratory for VOC analyses via EPA Method TO-15. The indoor/ambient air sample locations are depicted in **Figure 2**.

Because RIDEM has not established indoor air standards or guidance values, laboratory analytical results were compared to the MassDEP Indoor Air Threshold Values established in the VI Guidance for Residential (R-TVs) and Commercial/Industrial (C/I-TVs) settings. The following provides a summary of the indoor air analytical detections from the December 20, 2021, sampling event:

- SE-IA-101: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations above the corresponding R-TVs;
- SE-IA-102: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations

- above the corresponding R-TVs; and
- SE-IA-103: TCE was detected at a concentration above the corresponding R-TV.

A summary of indoor/ambient air analytical results is present in **Table 6**. A copy of the laboratory analytical report, including the chain of custody, is provided as **Appendix J**. The spatial distribution of contaminants detected in indoor air is depicted on the Sub-Slab Soil Gas and Indoor/Ambient Air Analytical Results Plan included in **Figure 6**.

#### 11.2.8 Soil Borings, Soil Sample Collection, and Monitoring Well Installation – 300 Series (January 4, 2022)

On January 4, 2022, SAGE returned to the Site to oversee the advancement of two (2) soil borings (SE-301 and SE-302) by SAGE Enviro-Tech Drilling Services utilizing a track-mounted Geoprobe® direct-push drill rig. SE-301 was advanced in the sidewalk on the southeast side of the Site building, and SE-302 was advanced in the sidewalk on the northeast side of the Site building. Each boring was subsequently completed as a permanent groundwater monitoring well.

While advancing the borings, continuous soil samples were collected in approximate five-foot intervals. All collected samples were field screened for the presence volatile compounds in the form of TVOVs via the jar headspace method using a PID equipped with a 10.6 electron-volt lamp calibrated to 100 ppmV isobutylene standard. TVOV screening values for the 300 series samples were all <1 ppmV. TVOV screening results are summarized in **Table 1**.

Borings were advanced to a terminal depth of approximately 39 to 40 feet BSG. Subsurface soil conditions observed during soil boring advancement consisted predominantly of silty fine to medium-grained sand. Groundwater was encountered approximately at 26 feet BSG. Soil lithology observations and monitoring well construction details are provided in the Soil Boring/Monitoring Well Logs included as **Appendix E**.

#### 11.2.9 Soil Sampling and Analysis – 300 Series (January 4, 2022)

Select soil samples collected were placed in a cooler on ice and submitted under chain-of-custody protocol to a state-certified laboratory for VOCs *via* EPA Method 8260C.

The analytical results of soil samples collected by SAGE are summarized in **Table 2**, which provides a summary of all analytes detected above laboratory reporting limits. As summarized in **Table 2** attached, TCE and PCE were detected at concentrations of 0.23 and 0.21 mg/kg, respectively, in the sample collected from 25 to 28 feet BSG at boring SE-301. These concentrations are below the applicable RIDEM Method 1 R-DEC and GB-LC.

A complete list of analytes tested is included in the laboratory analytical report included in **Appendix F**. The spatial distribution of contaminants detected in soil is depicted on the Soil Analytical Results Plan included as **Figure 4**.

#### 11.2.10 Groundwater Sampling and Analysis – 300 Series (January 10, 2022)

On January 10, 2022, SAGE collected groundwater samples from the two (2), newly-installed monitoring wells. Prior to collecting groundwater samples, SAGE gauged each monitoring well utilizing an oil/water interface probe to determine the depth to groundwater and to assess for the presence and/or absence of NAPL. NAPL was not detected during the monitoring well gauging. Measured static depth to groundwater ranged between 25.56 to 25.98 feet btoc.

Following the gauging, each monitoring well was purged a minimum of three (3) static well volumes utilizing a low-flow peristaltic pump with dedicated tubing. The tubing was deployed at a depth approximately equivalent to the mid-screen point or the mid-water column height of the monitoring well, as applicable. Upon completion of purging, groundwater samples were collected from each monitoring well, placed in a cooler with ice, and were submitted under chain-of-custody protocol to a state-certified laboratory for analysis of VOCs *via* U.S. EPA Method 8260C.

The detected analytical results obtained from groundwater samples collected by SAGE are summarized in **Table 4**, which provides a summary of all analytes detected above laboratory reporting limits and analytes for which the laboratory reporting limit is above the applicable RIDEM Method 1 GB-GWO. It should be noted that analytes that were not detected are not listed in the table. A complete list of analytes tested is included in the laboratory analytical reports included in **Appendix G**. The spatial distribution of contaminants detected in soil is depicted on the Groundwater Analytical Results Plan included as **Figure 5**.

As indicated in **Table 4**, TCE was detected at concentrations of 12 and 3 µg/l in the groundwater samples collected from monitoring wells SE-301(MW) and SE-302(MW), respectively. These concentrations are well below the applicable RIDEM Method 1 GB-GWO for TCE.

#### 11.2.11 Indoor/Ambient Air Sampling and Analysis – 200 Series (April 25, 2023)

On April 23, 2023, SAGE deployed passivated summa canisters equipped with 24-hour flow controllers within the and adjacent to the Site building. Six (6) indoor air samples were collected:

- SE-IA-201 and SE-IA-202 were collected from the first floor;
- SE-IA-203 and SE-IA-204 were collected from the second floor; and
- SE-IA-205 and SE-IA-206 were collected from the third floor.

The ambient air sample, SE-AA-101, was collected along the western exterior wall of the Site building.

Each summa canister was deployed for approximately 24 hours and transported utilizing proper chain-of-custody protocol to a State-certified laboratory for VOC analyses via EPA Method TO-15. The indoor/ambient air sample locations are depicted in **Figure 2**.

Laboratory analytical results were compared to the MassDEP R-TVs and C/I-TVs.

As indicated in **Table 6**, attached, naphthalene was detected above MassDEP VI R-TVs, but below C/I-TVs in sample SE-IA-201. All other VOCs where detected were below the MassDEP VI R-TVs. A copy of the

laboratory analytical report, including the chain of custody, is provided in **Appendix J**. The spatial distribution of contaminants detected in indoor air is depicted on the Soil Gas and Indoor/Ambient Air Analytical Results Plan included as **Figure 6**.

#### 11.2.12 Groundwater Elevation Survey – (May 2, 2023)

On May 2, 2023, a relative groundwater elevation survey was performed to determine the approximate groundwater flow direction at the Site. Each monitoring well was surveyed to establish relative elevations. Based on the elevation survey and groundwater elevation data, groundwater at the Site appears to flow generally to the east towards the Providence River. A summary of the groundwater gauging and elevation survey has been provided in the attached **Table 3**. Groundwater elevation contours are depicted in **Figure 2**.

#### **11.3 Free Liquids on the Surface**

No “free liquids on the surface” have been observed at the Site.

#### **11.4 Non-Aqueous Phase Liquid (NAPL)**

No NAPL has been detected in any on-Site monitoring wells.

#### **11.5 Impact to Environmentally Sensitive Areas**

Based on laboratory analytical data collected at the Site, the release does not appear to have adversely impacted an “Environmentally Sensitive Area,” as defined by the *Remediation Regulations*.

#### **11.6 Contamination of Man-Made Structures**

As noted herein, evidence of vapor intrusion occurring toward the easterly end of the Site structure within the basement has been found. As such, as part of the proposed remedy further described here, a sub-slab depressurization system (SSDS) is proposed.

#### **11.7 Odors or Stained Soil**

No odors or stained soil have been observed at the Site.

#### **11.8 Stressed Vegetation**

No stressed vegetation has been observed at the Site.

#### **11.9 Presence of Excavated or Stockpiled Material**

No excavated and/or stockpiled material has been observed at the Site.



### 11.10 List of Hazardous Substances and/or Petroleum at the Site

No hazardous substances and/or petroleum products have been observed to be currently stored or used at the Site.

### 12.0 CONCENTRATION GRADIENTS (1.8.3(A)(12))

All Site data are summarized in **Tables 1** through **6**, attached, and are compared to their applicable RIDEM and/or MassDEP criteria, and graphical presentations of the contaminant distribution in various environmental media is included in **Figures 4** through **6**. A summary of field screening and laboratory analytical detections and/or criteria exceedances is as follows:

- As indicated in **Table 1**, TVOV screening values, for soils collected during soil boring advancement ranged between less than the instrument detection limit of 0.1 ppmV to 7.5 ppmV;
- Laboratory analytical results for soil samples collected by SAGE are summarized in **Table 2** and are compared to the applicable RIDEM Method 1 R-DEC and GB-LC. As indicated in **Table 2**, several PAHs and metals were detected in excess of RIDEM Method 1 R-DEC and/or I/C-DEC;
- As indicated in **Table 3**, measured static depth to groundwater ranged between 25.56 to 31.71 feet and NAPL was not detected during the monitoring well gauging;
- Laboratory analytical results for groundwater samples are summarized in **Table 4** and are compared to the applicable RIDEM GB-GWOs. Select VOCs were detected at concentrations below the applicable RIDEM GB-GWOs;
- Laboratory analytical results for sub-slab soil gas samples collected by SAGE are summarized in **Table 5** and are compared to the MassDEP R-SSSGSVs and C/I-SSSGSVs. 1,1,1-TCA, 1,1-DCA, cis-1,2-DCE, PCE, and TCE were detected at concentrations above the corresponding MassDEP R-SSSGSV and/or C/I-SSSGSVs; and,
- Laboratory analytical results for indoor/ambient air samples collected by SAGE are summarized in **Table 6** and are compared to the MassDEP R-TVs and C/I-TVs. Bromodichloromethane, cis-1,2-DCE, naphthalene, PCE, and TCE were detected in excess of the corresponding MassDEP R-TVs and/or C/I-TVs.

The concentrations of PAHs and metals found in soil at the Site are likely related to the presence of urban fill. The detection of chlorinated VOCs within indoor air appears connected to soil gas emanating from soils located beneath the basement foundation slab on the eastern side of the Site building. Note, although levels of chlorinated VOCs beneath the basement slab do not exceed the applicable RIDEM Method 1 R-DEC or GB-LC, their presence coincides with soil gas and indoor air detections. Additionally, the DEC and GB-LC do not take into consideration the potential for vapor intrusion.

### 13.0 BACKGROUND CONCENTRATION INVESTIGATIONS (1.8.3(A)(13))

No investigations have been conducted to determine background concentrations of hazardous substances identified at the Site. Background concentrations are assumed to be below laboratory reporting limits.



#### **14.0 SITE-SPECIFIC HYDROGEOLOGICAL PROPERTIES (1.8.3(A)(14))**

The following provides an evaluation of the site-specific hydrogeological properties which could influence migration of hazardous substances throughout and away from the Site:

- On November 22, 2021, depth to water ranged from approximately 28.71 to 31.71 feet, and on January 10, 2022, depth to water ranged from 25.56 to 25.98 feet. As such, the water table is expected to be below any man-made barriers and/or conduits likely to affect the groundwater flow direction and contaminant migration at the Site;
- There are no known natural barriers to or conduits for contaminant migration at the Site;
- According to the Bedrock Geologic Map of Rhode Island (Hermes, et al., 1994), the Site is in an area mapped as being underlain by the Pennsylvanian-aged Narragansett Bay Group of the Rhode Island Formation. The Narragansett Bay group consists of gray to black, fine-coarse-grained quartz arenite, litharenite, shale, and conglomerate, with minor beds of anthracite and meta-anthracite and in southern Rhode Island consists of meta-sandstone, meta-conglomerate, schist, carbonaceous schist, and graphite. Note subsurface exploration was extended to 40 feet BSG and bedrock was not encountered;
- The water table elevation contours depicted on **Figure 2** illustrate the direction of groundwater flow at the Site as measured on May 2, 2023. Based on the elevation survey and groundwater elevation data, groundwater at the Site appears to flow in a easterly direction; and,
- Subsurface soil conditions observed during soil boring advancement consisted predominantly of silty fine to medium-grained sand. SAGE's field descriptions of Site soil are consistent with information published in the Surficial Geology of the Providence Quadrangle (Smith, 1956), which depicts the Site in an area of glacial outwash plain deposits and describes the soil in the vicinity of the Site as primarily sorted sand and local deposits of coarse gravel. Literature values for the saturated hydraulic conductivity of glacial outwash range from  $1 \times 10^{-3}$  to  $1 \times 10^{-1}$  centimeters per second (Fetter, 1994).

#### **15.0 TOPOGRAPHY, SURFACE WATER, AND RUN-OFF FLOW PATTERNS (1.8.3(A)(15))**

The following provides a characterization of the topography, surface water, and run-off flow patterns, including the flooding potential of the Site:

- According to the Providence, Rhode Island USGS Quadrangle topographic map, the general elevation of the Site is approximately 42 feet above the National Geodetic Vertical Datum (NGVD). The topography of the Site and surrounding area slopes downward to the east from Eddy Street;
- The majority of the Site is occupied by the building footprint. The remaining area is developed with asphalt paved parking and driving areas. Stormwater is expected to infiltrate on-Site in the landscaped areas or flow to off-Site catch basins; and,
- Based on information obtained from the online RIDEM Environmental Resource Map, the Site is not located within a 100-year flood zone. Additionally, based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for

Providence, Rhode Island (Map 44007C0317J), the Site is in an area mapped as Zone X. A Zone X area is defined as an area that has been determined to have a 0.2 percent annual chance of flooding, a 1 percent annual chance of flooding with average depths less than 1 foot or drainage areas less than 1 square mile or is protected by levees from the 1 percent annual chance flood. As such, the potential for flooding at the Site is low.

## **16.0 VOLATILIZATION POTENTIAL OF HAZARDOUS SUBSTANCES (1.8.3(A)(16))**

Given the nature of contaminants of concern and based on the results of soil gas and indoor/ambient air laboratory analysis, VOCs have been identified within indoor air. Based upon a comparison of sub-slab soil gas and indoor air data, the contaminants of concern associated with vapor intrusion include PCE, TCE, and Cis-1,2-DCE. Additionally, the source of vapor intrusion appears associated with VOCs in soil and to a lesser degree groundwater beneath the basement of the Site structure located toward its east side.

## **17.0 CONTAMINANT TRANSPORT BY WIND OR EROSION (1.8.3(A)(17))**

Under current conditions, the Site is developed with the Site building, asphalt-paved parking and driveway areas, concrete walkways, and landscaped areas. Precipitation reaching the ground surface is expected to either infiltrate in the landscaped areas or flow to off-Site catch basins. As such, wind and erosion are not expected to contribute to contaminant migration.

## **18.0 FATE AND TRANSPORT MODELS (1.8.3(A)(18))**

No fate and transport models were used during the Site investigation.

## **19.0 SUMMARY OF SAMPLING AND ANALYTICAL METHODS (1.8.3(A)(19))**

Section 11.2, Figure 2, Figures 4 through 6, Tables 1 through 6, and Appendices F, G, I, and J provide a summary of the samples collected, sample locations, parameters tested for, and analytical methods used during the Site investigation.

## **20.0 MONITORING WELL CONSTRUCTION PLAN AND DEVELOPMENT PROCEDURES (1.8.3(A)(20))**

Groundwater monitoring wells were constructed with one-inch diameter, thread coupled PVC materials. Lengths of machine-cut, 0.010-inch slot well screen were installed roughly across the observed water table elevation to obtain an adequate and representative sample for laboratory analysis. Screened intervals were set in silica sand, and a one-foot bentonite seal was set above the well screen. The monitoring wells were completed with gripper plugs and road boxes mounted flush with ground surface to limit disturbance and surface water infiltration. Upon completion, the wells were developed with a peristaltic pump to reduce sample turbidity by removing fine particulate matter (clay and silt) from the filter pack and the geologic formation near the well intake, enhancing inflow to the well. Monitoring well construction details are presented on the Soil Boring/Monitoring Well Logs included as **Appendix E**.

## **21.0 MANAGEMENT OF INVESTIGATION-DERIVED WASTE (1.8.3(A)(21))**

Investigation-derived waste was managed on-Site during the investigation in accordance with the RIDEM *Guidelines for the Management of Investigation Derived Waste (Policy Memo 95-01)*.

## **22.0 QUALITY ASSURANCE AND QUALITY CONTROL EVALUATION (1.8.3(A)(22))**

The *Remediation Regulations* require a quality assurance and quality control (QA/QC) evaluation summary for sample handling and analytical procedures. As documented herein, the analysis of soil samples was completed using EPA Methods 8260C, 8015D, 8270D, 6010C, 7471B, and 8082A. The analysis of groundwater samples was completed using EPA Method 8260C. The analysis of soil gas and indoor air samples was completed using EPA Method TO-15. The laboratory reports included in **Appendices F, G, I, and J** document the laboratory QA/QC concerns identified for each of the analyses. No issues expected to affect the overall usability of the data set for the purposes of this SIR were identified.

With respect to field QA/QC, all analytical samples were collected using SAGE's standard operating procedures, which were prepared in accordance with RIDEM, U.S. EPA, and/or MassDEP requirements. Samples were collected in laboratory-supplied containers, were placed in a cooler on ice, and submitted under chain-of-custody protocol to a state-certified laboratory.

## **23.0 PUBLIC INVOLVEMENT (1.8.3(A)(23))**

Pre-Site Investigation public notification was distributed to Site abutters on April 27, 2023. Because the Site is located in a designated EJ Focus Area, EJ Materials were also distributed. Copies of the distributed public notification documents are included in **Appendix K**.

SAGE is prepared to implement post-SIR public notice requirements when the RIDEM deems the SIR to be complete.

## **24.0 OTHER SITE-SPECIFIC FACTORS (1.8.3(A)(24))**

No other Site-specific factors are necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the Site.

## **25.0 DEVELOPMENT OF REMEDIAL ALTERNATIVES (1.8.4)**

Based on the information presented herein, it is SAGE's opinion that remedial activities are warranted at the Site to achieve the Soil Objectives established within the *Remediation Regulations* and to address vapor intrusion concerns. In compliance with Section 1.8.4 of the *Remediation Regulations* and based on the nature and extent of the contamination detected at the Site, SAGE has developed the following three remedial alternatives:

- Alternative 1 – No action/monitored natural attenuation: This option would retain all contaminant-impacted soil on-Site and Site conditions remain unchanged;

- Alternative 2 – Soil excavation and importation of clean fill material: This option would require excavation of all contaminant-impacted soil with concentrations above the applicable RIDEM Method 1 R-DEC and/or GB-LC followed by backfilling the Site with clean fill material; and
- Alternative 3 – Implementation of engineering controls to include capping of Site surfaces using existing pavement/concrete and where needed, placement of a clean presumptive soil cap in landscaped areas and installation/operation of an active sub-slab depressurization system (SSDS) equipped with remote telemetry monitoring to mitigate vapor intrusion. Along with these actions, an Environmental Land Use Restriction (ELUR) with Soil Management Plan (SMP) would be recorded to restrict certain activities and maintain said controls.

The following table summarizes our evaluation of the technical feasibility, permanency, cost efficiency, compliance with state/local laws or other public concerns, and the ability of the Performing Party to perform the preferred remedial alternative for the above-noted remedial alternatives:

Remedial Alternative	Risk Management	Technical Feasibility	Compliance with State/Local Laws or Other Public Concerns	Ability of Performing Party to Perform the Preferred Remedial Alternative
Alternative 1: No Action/Monitored Natural Attenuation	Will not comply with the <i>Remediation Regulations</i> – Soil concentrations of contaminants at the Site would remain in soil above their applicable RIDEM regulatory criteria and the potential for vapor intrusion would not be addressed.	Yes	No	Yes
Alternative 2: Soil Excavation and Importation of Clean Fill Material	Will comply with the <i>Remediation Regulations</i> by mitigating risk to human health and the environment relative to soil. However, this approach may not be fully executable given the presence of a permanent structure and may not address vapor intrusion.	No	No	No
Alternative 3: Implementation of Engineering Controls (SSDS and	Will comply with the <i>Remediation Regulations</i> by mitigating the risk to human health and the environment. Site users will have	Yes	Yes	Yes


Remedial Alternative	Risk Management	Technical Feasibility	Compliance with State/Local Laws or Other Public Concerns	Ability of Performing Party to Perform the Preferred Remedial Alternative
Site-wide cap) and Institutional Controls	a reduced potential to contact contaminated soil, the potential for vapor intrusion will be addressed, and future users of the Site will be obligated to maintain engineering controls (including the SSDS) and manage soil in accordance with the SMP.			

Alternative 3 (Implementation of Engineering Controls (SSDS and Site-wide cap) and Institutional Controls (ELUR and SMP)) is the preferred alternative, as it is a cost-effective remedial alternative that complies with the intent of the RIDEM *Remediation Regulations* (as well as other applicable federal, state, and local laws or public concerns), it is technically feasible, it is consistent with current and future land use, and it manages actual and potential risks to human health and the environment. The Performing Party has the ability to implement the above-noted preferred remedial alternative.

## 27.0 CERTIFICATION STATEMENTS (1.8.5)


This SIR was completed in accordance with the RIDEM *Remediation Regulations*. Accordingly, the following signed statements are included with regard to this SIR.

*I certify that the SIR is complete and accurate representation of the contaminated Site and the release and contains all known facts surrounding the release to the best of my knowledge.*


  
\_\_\_\_\_  
Joseph Paolino  
1144 Eddy Street, LLC

5/3/2023  
\_\_\_\_\_  
Date

*We certify that information contained within the SIR is complete and accurate to the best of our knowledge. This report has been prepared and reviewed by the undersigned staff in accordance with SAGE's standard Quality Control Procedures.*

  
\_\_\_\_\_  
Barrett L. Smith, CPG, LEP  
Senior Project Manager

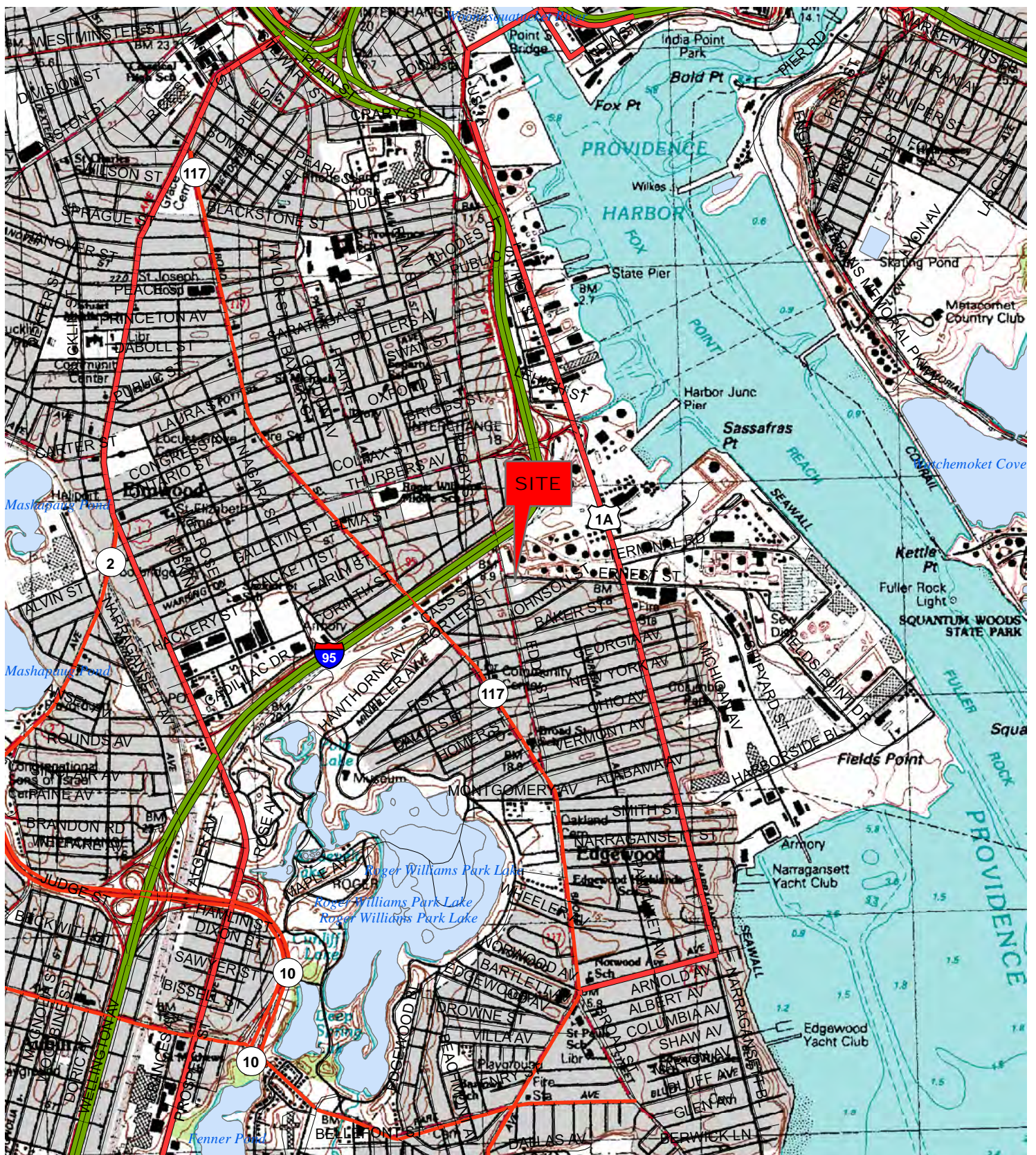
5/3/2023  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Jacob H. Butterworth, MS, LSP  
Vice President

5/3/2023  
\_\_\_\_\_  
Date

## FIGURES





USGS QUADRANGLE  
PROVIDENCE, RHODE ISLAND



8

★ Site Location

## USGS Quadrangle Site Location Map

144 Eddy Street  
Providence, Rhode Island

DATE: 04/27/2023

JOB #: S3977

CREATED BY: LM

## Figure 1



Data Provided by RIGIS

0 600 1,200 2,400 3,600 4,800 Feet





★ Site Location

### Legend

- Approximate Site Boundary
- Slab-on-Grade
- Building with Basement
- Groundwater Elevations (Feet) (May 2023)
- ← Groundwater Flow Direction
- ⊕ Approximate Location of Monitoring Well (Groundwater Elevation (Feet))
- Approximate Location of Soil Boring
- Approximate Location of Hand Auger
- ▲ Approximate Location of Indoor/Ambient Air Sample
- Approximate Location of Soil Gas Point



0 3.75 7.5 15 22.5 30 Feet

Data Provided by RIGIS  
Orthoimagery provided by nearmap

## Site Plan

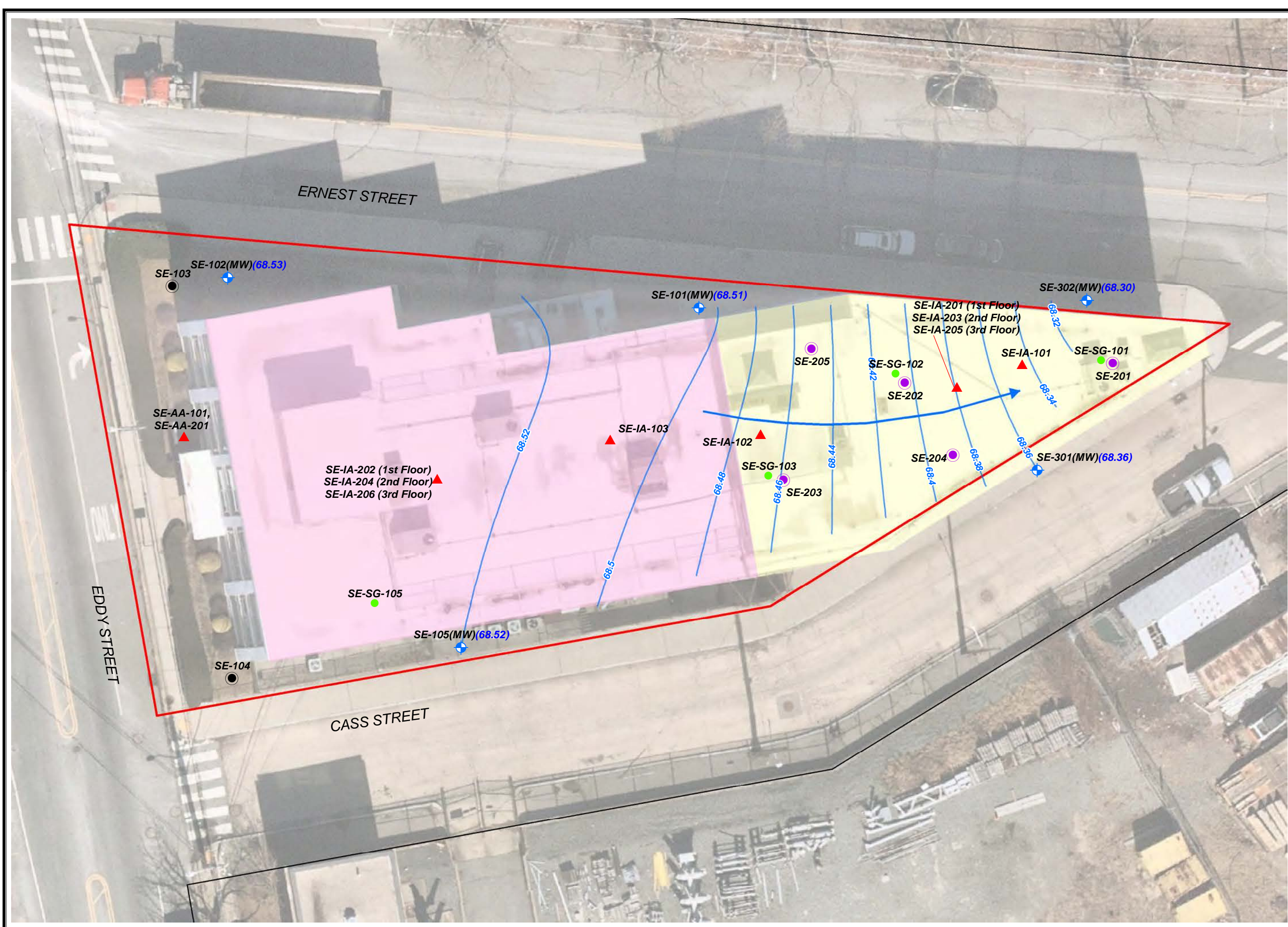
1144 Eddy Street  
Providence, Rhode Island

Date: 05/03/2023

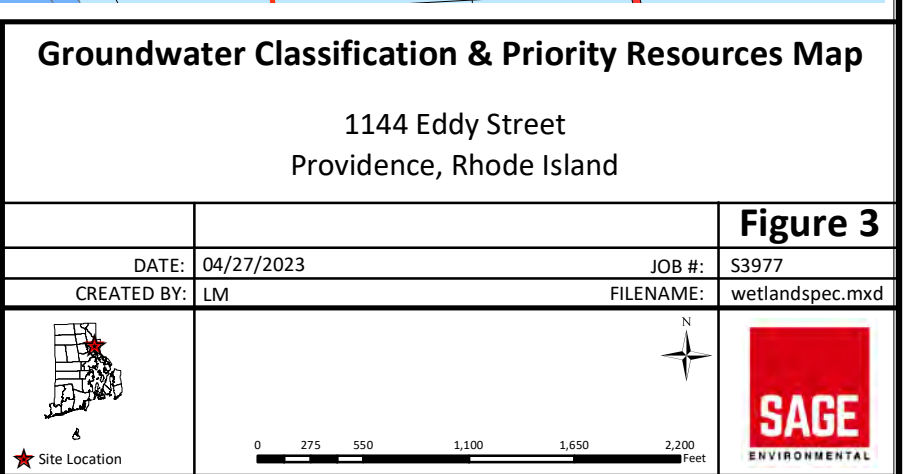
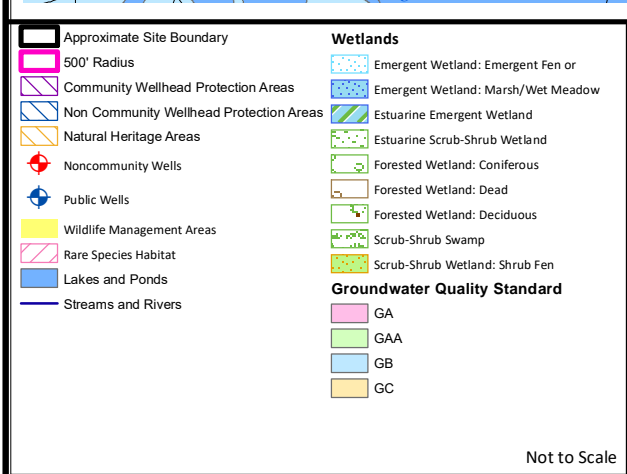
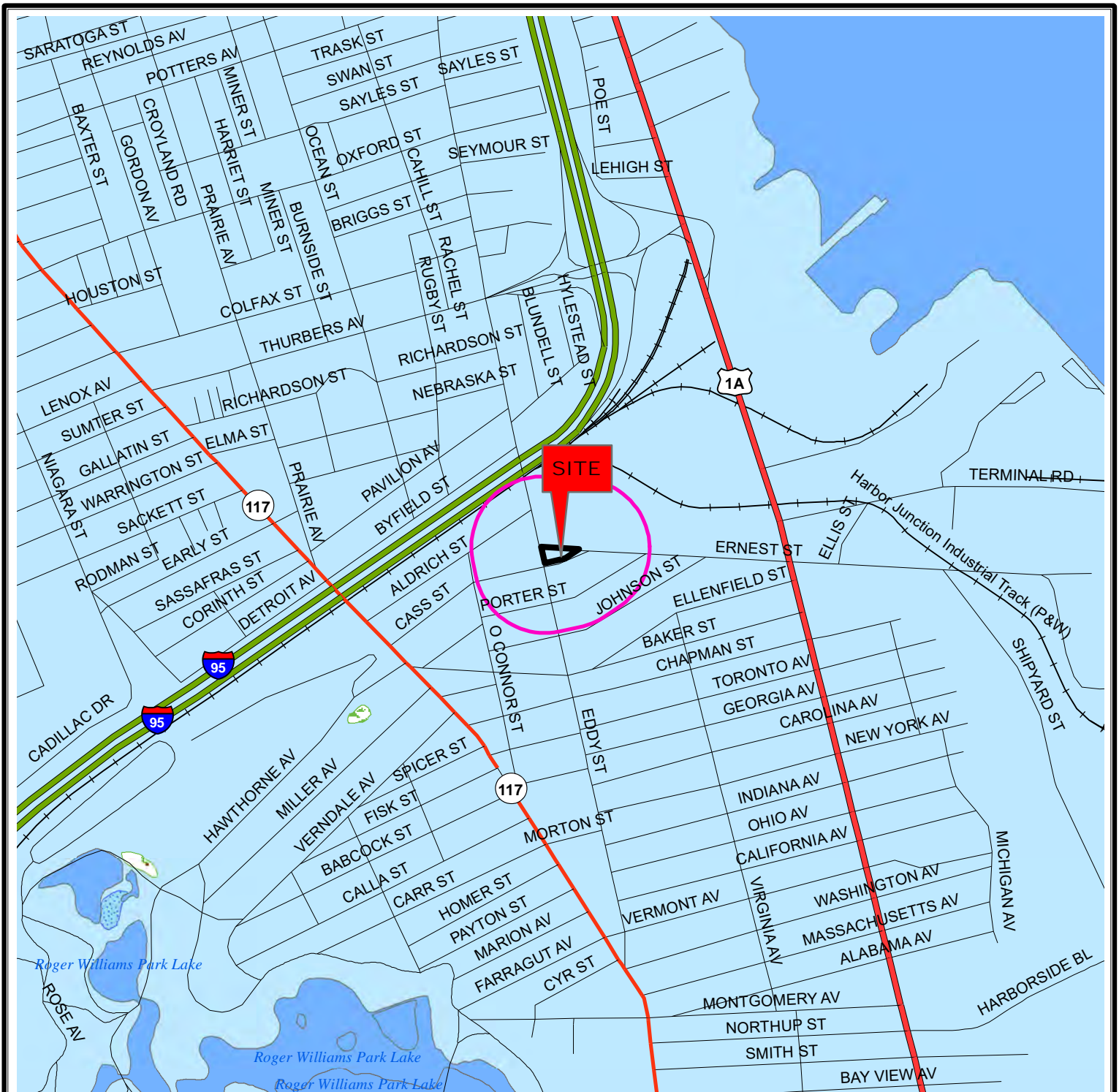
Job#: S3977

Created By: ALM/jpl

## Figure 2







**Figure 3**







Site Location

**Legend**

- Approximate Site Boundary
- Slab-on-Grade
- Building with Basement
- Groundwater Elevations (Feet) (May 2023)
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- Approximate Location of Soil Gas Point



0 3.75 7.5 15 22.5 30 Feet  
Data Provided by RIGIS  
Orthom imagery provided by nearmap.com

# Soil Analytical Results Plan

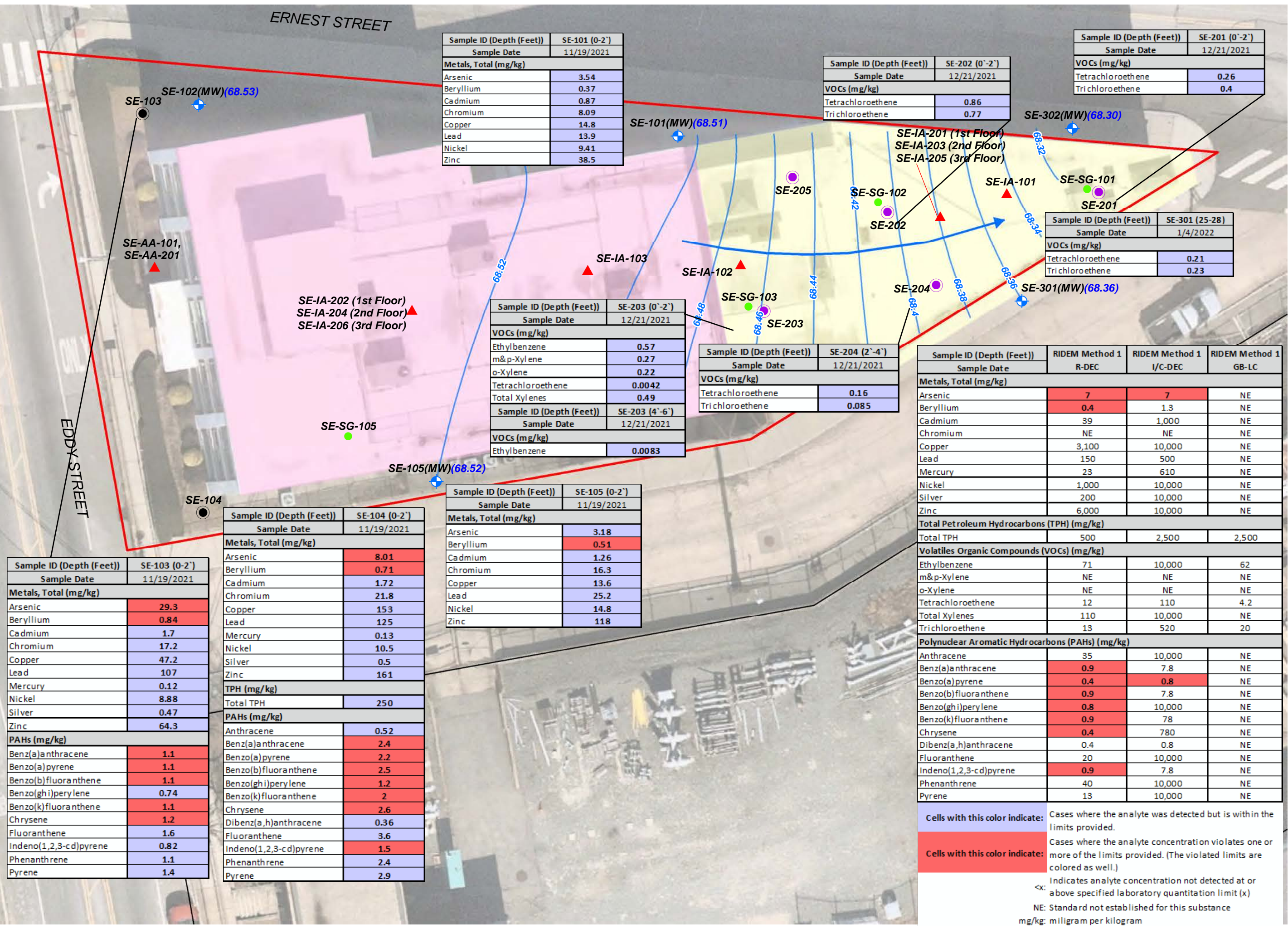
1144 Eddy Street  
Providence, Rhode Island

Date: 05/03/2023

Job#: S3977

Created By: ALM/jpl

## Figure 4



Sample ID (Depth (Feet))	SE-101 (0'-2')
Sample Date	11/19/2021
<b>Metals, Total (mg/kg)</b>	
Arsenic	3.54
Beryllium	0.37
Cadmium	0.87
Chromium	8.09
Copper	14.8
Lead	13.9
Nickel	9.41
Zinc	38.5

Sample ID (Depth (Feet))	SE-202 (0'-2')
Sample Date	12/21/2021
<b>VOCs (mg/kg)</b>	
Tetrachloroethene	0.86
Trichloroethene	0.77

Sample ID (Depth (Feet))	SE-201 (0'-2')
Sample Date	12/21/2021
<b>VOCs (mg/kg)</b>	
Tetrachloroethene	0.26
Trichloroethene	0.4

Sample ID (Depth (Feet))	SE-301 (25'-28')
Sample Date	1/4/2022
<b>VOCs (mg/kg)</b>	
Tetrachloroethene	0.21
Trichloroethene	0.23

Sample ID (Depth (Feet))	SE-203 (0'-2')
Sample Date	12/21/2021
<b>VOCs (mg/kg)</b>	
Ethylbenzene	0.57
m&p-Xylene	0.27
o-Xylene	0.22
Tetrachloroethene	0.0042
Total Xylenes	0.49
Sample ID (Depth (Feet))	SE-203 (4'-6')
Sample Date	12/21/2021
<b>VOCs (mg/kg)</b>	
Ethylbenzene	0.0083

Sample ID (Depth (Feet))	SE-204 (2'-4')
Sample Date	12/21/2021
<b>VOCs (mg/kg)</b>	
Tetrachloroethene	0.16
Trichloroethene	0.085

Sample ID (Depth (Feet))	RIDEM Method 1 R-DEC	RIDEM Method 1 I/C-DEC	RIDEM Method 1 GB-LC
<b>Metals, Total (mg/kg)</b>			
Arsenic	7	7	NE
Beryllium	0.4	1.3	NE
Cadmium	39	1,000	NE
Chromium	NE	NE	NE
Copper	3,100	10,000	NE
Lead	150	500	NE
Mercury	23	610	NE
Nickel	1,000	10,000	NE
Silver	200	10,000	NE
Zinc	6,000	10,000	NE
<b>Total Petroleum Hydrocarbons (TPH) (mg/kg)</b>			
Total TPH	500	2,500	2,500
<b>Volatiles Organic Compounds (VOCs) (mg/kg)</b>			
Ethylbenzene	71	10,000	62
m&p-Xylene	NE	NE	NE
o-Xylene	NE	NE	NE
Tetrachloroethene	12	110	4.2
Total Xylenes	110	10,000	NE
Trichloroethene	13	520	20
<b>Polynuclear Aromatic Hydrocarbons (PAHs) (mg/kg)</b>			
Anthracene	35	10,000	NE
Benz(a)anthracene	0.9	7.8	NE
Benzo(a)pyrene	0.4	0.8	NE
Benzo(b)fluoranthene	0.9	7.8	NE
Benzo(ghi)perylene	0.8	10,000	NE
Benzo(k)fluoranthene	0.9	78	NE
Chrysene	0.4	780	NE
Dibenz(a,h)anthracene	0.4	0.8	NE
Fluoranthene	20	10,000	NE
Indeno(1,2,3-cd)pyrene	0.9	7.8	NE
Phenanthrene	40	10,000	NE
Pyrene	13	10,000	NE

Sample ID (Depth (Feet))	SE-103 (0'-2')
Sample Date	11/19/2021
<b>Metals, Total (mg/kg)</b>	
Arsenic	29.3
Beryllium	0.84
Cadmium	1.7
Chromium	17.2
Copper	47.2
Lead	107
Mercury	0.12
Nickel	8.88
Silver	0.47
Zinc	64.3
<b>PAHs (mg/kg)</b>	
Benz(a)anthracene	1.1
Benzo(a)pyrene	1.1
Benzo(b)fluoranthene	1.1
Benzo(ghi)perylene	0.74
Benzo(k)fluoranthene	1.1
Chrysene	1.2
Fluoranthene	1.6
Indeno(1,2,3-cd)pyrene	0.82
Phenanthrene	1.1
Pyrene	1.4

Sample ID (Depth (Feet))	SE-104 (0'-2')
Sample Date	11/19/2021
<b>Metals, Total (mg/kg)</b>	
Arsenic	8.01
Beryllium	0.71
Cadmium	1.72
Chromium	21.8
Copper	153
Lead	125
Mercury	0.13
Nickel	10.5
Silver	0.5
Zinc	161
<b>TPH (mg/kg)</b>	
Total TPH	250
<b>PAHs (mg/kg)</b>	
Anthracene	0.52
Benz(a)anthracene	2.4
Benzo(a)pyrene	2.2
Benzo(b)fluoranthene	2.5
Benzo(ghi)perylene	1.2
Benzo(k)fluoranthene	2
Chrysene	2.6
Dibenz(a,h)anthracene	0.36
Fluoranthene	3.6
Indeno(1,2,3-cd)pyrene	1.5
Phenanthrene	2.4
Pyrene	2.9

Sample ID (Depth (Feet))	SE-105 (0'-2')
Sample Date	11/19/2021
<b>Metals, Total (mg/kg)</b>	
Arsenic	3.18
Beryllium	0.51
Cadmium	1.26
Chromium	16.3
Copper	13.6
Lead	25.2
Nickel	14.8
Zinc	118

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

mg/kg: milligram per kilogram





★ Site Location

**Legend**

- Approximate Site Boundary
- Slab-on-Grade
- Building with Basement
- Groundwater Elevations (Feet) (May 2023)
- ← Groundwater Flow Direction
- ⊕ Approximate Location of Monitoring Well (Groundwater Elevation (Feet))
- Approximate Location of Soil Boring
- Approximate Location of Hand Auger
- ▲ Approximate Location of Indoor/Ambient Air Sample
- Approximate Location of Soil Gas Point



0 3.75 7.5 15 22.5 30 Feet

Data Provided by RIGIS  
Orthoimagery provided by nearmap

## Groundwater Analytical Results Plan

1144 Eddy Street  
Providence, Rhode Island

Date: 05/03/2023

Job#: S3977

Created By: ALM/jpl

### Figure 5



Sample ID	SE-102 (MW)
Sample Date	11/22/2021
VOCs (ug/l)	
Tetrachloroethene	1

Sample ID	SE-101 (MW)
Sample Date	11/22/2021
VOCs (ug/l)	
Chloroform	2
1,1-Dichloroethene	6
Trichloroethene	9

Sample ID	SE-302 (MW)
Sample Date	1/10/2022
VOCs (ug/l)	
Trichloroethene	3

Sample ID	SE-301 (MW)
Sample Date	1/10/2022
VOCs (ug/l)	
Trichloroethene	12

Sample ID	SE-105 (MW)
Sample Date	11/22/2021
VOCs (ug/l)	
Trichloroethene	4

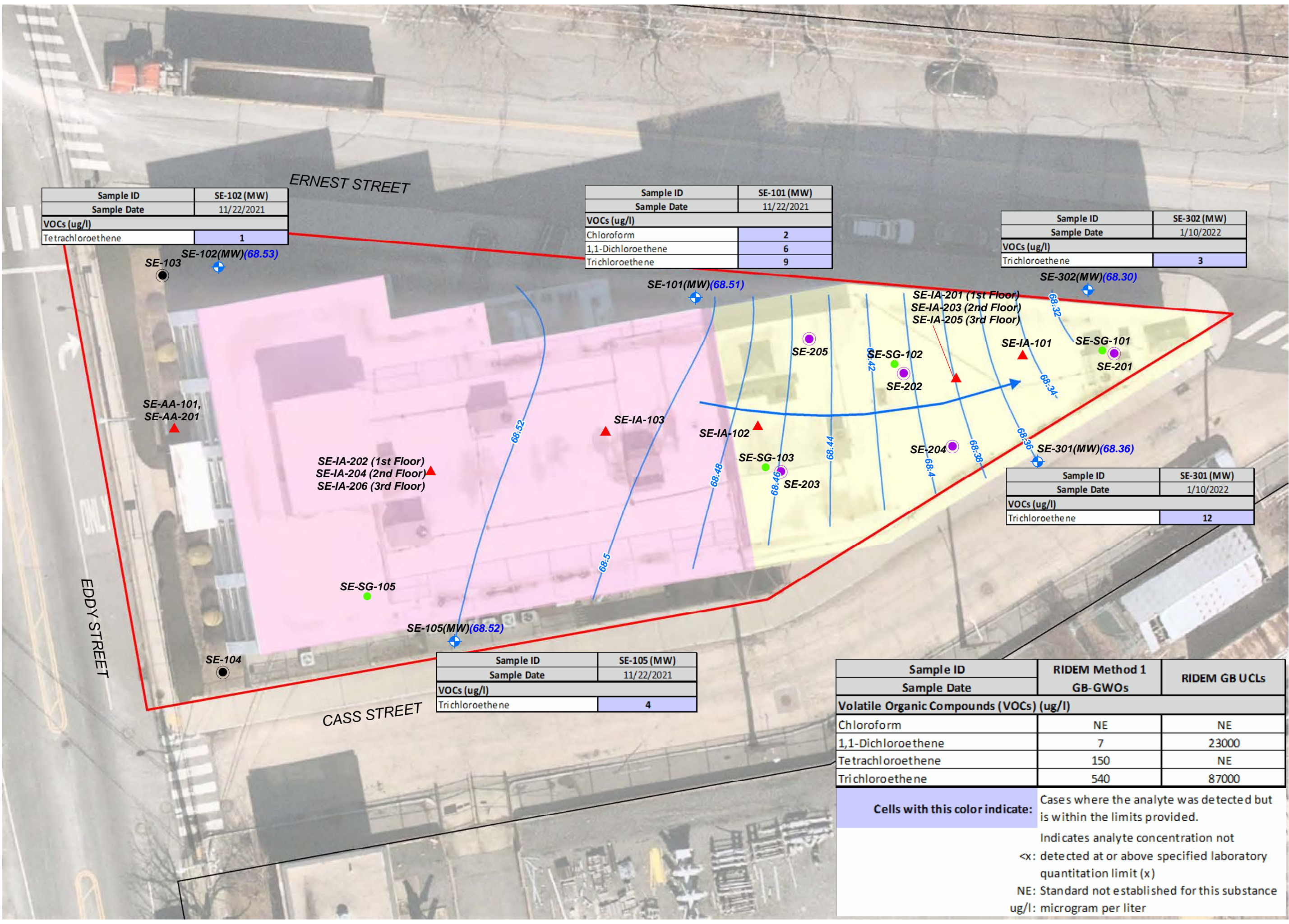
Sample ID	RIDEM Method 1 GB-GWOs	RIDEM GB UCLs
Volatile Organic Compounds (VOCs) (ug/l)		
Chloroform	NE	NE
1,1-Dichloroethene	7	23000
Tetrachloroethene	150	NE
Trichloroethene	540	87000

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

Indicates analyte concentration not <x: detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

ug/l: microgram per liter







★ Site Location

**Legend**

- Approximate Site Boundary
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- Approximate Location of Soil Gas Point



0 4 8 16 24 32 Feet

Data Provided by RIGIS  
Orthoimagery provided by nearmap

**Sub-Slab Soil Gas & Indoor/Ambient Air Analytical Results Plan**

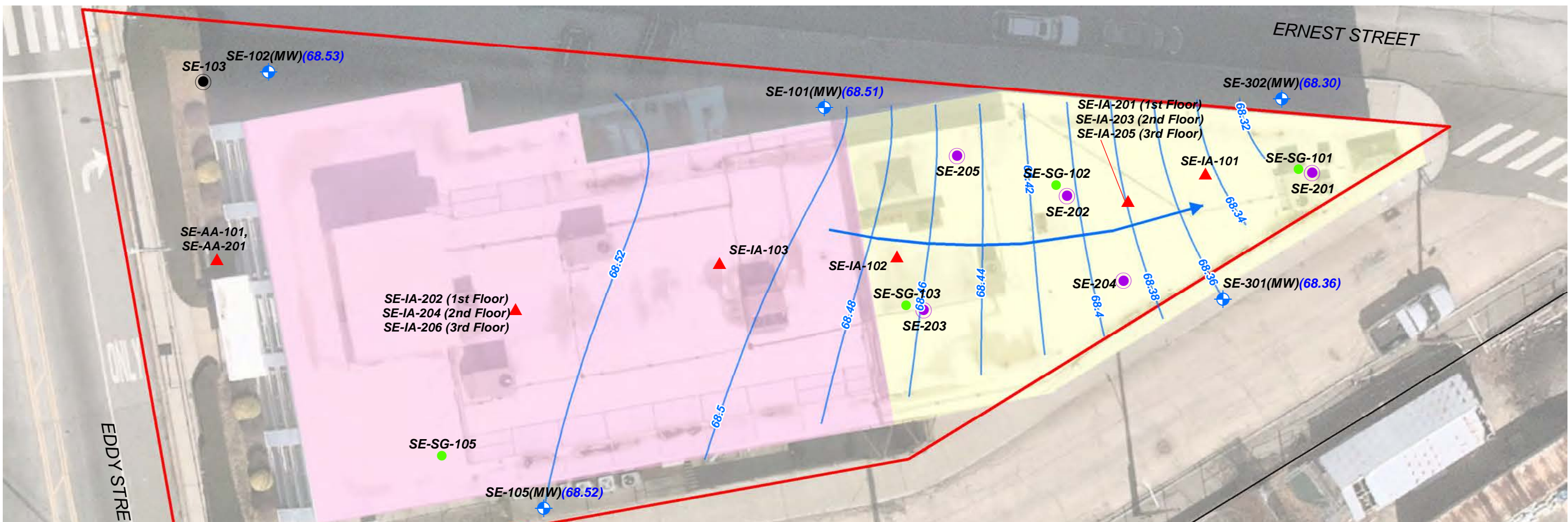
1144 Eddy Street  
Providence, Rhode Island

Date: 05/03/2023

Job#: S3977

Created By: ALM/jpl

**Figure 6**



Summary of Sub-Slab Soil Gas Sample Chemical Analysis Results						
Sample ID/Date	SE-SG-101 11/22/2021	SE-SG-102 11/22/2021	SE-SG-103 11/22/2021	SE-SG-105 11/22/2021	MassDEP Residential Sub-Slab Soil Gas Screening Values	MassDEP Commercial/Industrial Sub-Slab Soil Gas Screening Values
Analyte	Result	Result	Result	Result	Values	Values
<b>Volatiles (TO15) - TO15 (ug/m3)</b>						
1,1,1-Trichloroethane	812	147	317	< 13.6	210	311000
1,1,2,2-Tetrachloroethane	< 17.2	< 17.2	< 17.2	< 17.2	2.8	14
1,1,2-Trichloroethane	< 13.6	< 13.6	< 13.6	< 13.6	10	50
1,1-Dichloroethane	20.9	< 10.1	197	< 10.1	56	50000
1,2,4-Trimethylbenzene	120	141	210	139	NE	NE
1,2-Dibromoethane(EDB)	< 19.2	< 19.2	< 19.2	< 19.2	0.54	2.7
1,2-Dichloroethane	< 10.1	< 10.1	< 10.1	< 10.1	6.3	31
1,2-dichloropropane	< 11.5	< 11.5	< 11.5	< 11.5	8.6	42
1,3,5-Trimethylbenzene	36	42	57	37.8	NE	NE
4-Ethyltoluene	117	131	176	118	NE	NE
Acetone	56.5	70.3	80.2	46.8	6400	50000
Benzene	20.3	20.7	22.4	16.6	160	800
Bromodichloromethane	< 13.4	< 13.4	< 13.4	< 13.4	9.2	45
Chloroethane	< 6.59	< 6.59	11.6	< 6.59	NE	NE
Cis-1,2-Dichloroethene	76.1	12.4	230	< 9.9	56	370
Cyclohexane	55.4	64	71.6	48.2	NE	NE
Dibromochloromethane	< 21.3	< 21.3	< 21.3	< 21.3	6.8	33
Ethanol	320	365	422	266	NE	NE
Ethylbenzene	135	147	151	116	520	62000
Heptane	90.1	104	106	79.9	NE	NE
Hexachlorobutadiene	< 26.6	< 26.6	< 26.6	< 26.6	7.4	320
Hexane	62	71.5	76.4	54.2	NE	NE
Isopropylalcohol	13.7	16.6	< 6.14	16.9	NE	NE
Isopropylbenzene	< 12.3	12.6	14.5	< 12.3	NE	NE
m,p-Xylene	477	508	534	410	NE	NE
Methyl Ethyl Ketone	70.7	84	90.5	53.6	840	310000
o-Xylene	155	172	184	137	NE	NE
Tetrachloroethene	637	141	23.7	< 6.78	98	290
Toluene	539	576	572	456	3800	310000
Trichloroethene	4620	956	423	< 5.37	28	120

**Cells with this color indicate:** Cases where a reporting limit is not sufficiently low for evaluating compliance with one or more of the limits provided.

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

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NE: Standard not established for this substance

µg/m<sup>3</sup>: micrograms per cubic meter

Summary of Indoor/Ambient Air Sample Chemical Analysis Results													
Sample ID/Date	SE-IA-101 12/20/2021	SE-IA-102 12/20/2021	SE-IA-103 12/20/2021	SE-IA-201 04/25/2023	SE-IA-202 04/25/2023	SE-IA-203 04/25/2023	SE-IA-204 04/25/2023	SE-IA-205 04/25/2023	SE-IA-206 04/25/2023	MassDEP Residential Threshold Values	MassDEP Commercial/Industrial Threshold Values	SE-AA-101 12/20/2021	SE-AA-201 04/25/2023
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
<b>Volatile Organic Compounds by EPA Method TO15 (µg/m<sup>3</sup>)</b>													
1,1,1-Trichloroethane	1.94	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	3	4400	< 1.36	< 1.36
1,2,4-Trimethylbenzene	< 1.23	< 1.23	< 1.23	5.36	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
1,2-Dibromoethane(EDB)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.0078	0.038	< 0.04	< 0.04
1,2-Dichloroethane	0.06	0.07	0.06	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.44	0.06	0.09
1,3,5-Trimethylbenzene	< 1.23	< 1.23	< 1.23	1.7	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
4-Ethyltoluene	< 1.23	< 1.23	< 1.23	6.24	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
Acetone	6.39	8.17	7.62	44.9	< 0.89	29.7	< 0.89	< 0.89	28.3	91	710	3.58	70.3
Benzene	0.79	0.8	0.82	1.09	1.07	0.95	1.01	0.9	0.95	2.3	11	0.74	0.98
Bromodichloromethane	0.21	0.17	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.13	0.65	< 0.07	< 0.07
Carbon Tetrachloride	0.47	0.51	0.46	0.43	0.43	0.42	0.43	0.4	0.43	0.54	1.9	0.46	0.39
Chloroform	1.67	1.22	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	1.9	3	< 0.49	< 0.49
Chloromethane	1.09	1.21	1.06	1.32	1.25	1.21	1.28	1.2	1.28	NE	NE	1.1	1.27
Cis-1,2-Dichloroethene	1.13	0.99	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.8	5.3	< 0.40	< 0.40
Cyclohexane	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	1.1	< 0.86	1.04	< 0.86	NE	NE	< 0.86	1.13
Dichlorodifluoromethane	2.13	2.44	2.13	2.39	2.07	2.26	2.42	2.26	2.34	NE	NE	2.16	2.16
Ethanol	6.76	8.55	8.02	15.3	2.24	12.7	11.3	8.85	12.7	NE	NE	4.65	43.1
Ethyl acetate	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	NE	NE	< 0.90	3.46
Heptane	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	NE	NE	< 1.02	1.08
Hexane	< 0.79	0.85	< 0.79	3.03	3.19	2.82	3.11	2.73	2.94	NE	NE	< 0.79	2.61
Isopropylalcohol	1.27	1.71	1.57	3.24	< 0.92	2	0.96	< 0.92	1.45	NE	NE	< 0.92	2.53
m,p-Xylene	< 2.17	< 2.17	< 2.17	2.64	2.53	2.42	2.55	< 2.17	2.47	NE	NE	< 2.17	< 2.17
Methyl Ethyl Ketone	< 0.66	0.67	< 0.66	8.61	0.84	1.35	0.87	0.91	0.91	12	4400	< 0.66	1.26
Naphthalene	< 0.26	0.49	0.28	0.87	< 0.26	0.6	0.39	0.52	0.55	0.6	2.7	< 0.26	0.29
o-Xylene	< 1.08	< 1.08	< 1.08	1.19	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	NE	NE	< 1.08	< 1.08
Styrene	< 0.43	< 0.43	< 0.43	1.06	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	1.4	20	< 0.43	< 0.43
Tetrachloroethene	11.3	6.76	0.79	0.35	< 0.34	< 0.34	< 0.34	0.58	< 0.34	1.4	4.1	< 0.34	< 0.34
Tetrahydrofuran	< 0.74	< 0.74	< 0.74	9.6	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	NE	NE	< 0.74	< 0.74
Toluene	1.64	1.74	1.39	5.05	5.24	4.63	4.97	3.99	4.37	54	4400	1.25	3.42
Trichloroethene	14.1	8.32	0.52	0.16	< 0.13	< 0.13	< 0.13	0.19	< 0.13	0.4	1.8	< 0.13	< 0.13
Trichlorofluoromethane	< 1.40	< 1.40	< 1.40	1.41	< 1.40	1.45	1.53	< 1.40	1.41	NE	NE	< 1.40	< 1.40
Vinyl Chloride	0.18	0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.27	1.3	< 0.13	< 0.13

**Cells with this color indicate:** Cases where a reporting limit is not sufficiently low for evaluating compliance with one or more of the limits provided.

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Threshold Value not established for this substance

µg/m<sup>3</sup>: micrograms per cubic meter

## **TABLES**

**Table 1**  
**TVOV Screening Results**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Date	Boring ID	Depth (Feet BSG)	TVOV Result (ppmv)
11/22/2021	SE-101(MW)	0-2*	ND
		2-5	ND
		5-10	ND
		10-15*	ND
		15-20	ND
	SE-102(MW)	0-2	ND
		2-5	ND
		5-10	ND
		10-15*	ND
	SE-103	0-2*	ND
	SE-104	0-2*	ND
	SE-105(MW)	0-2	ND
		2-5	ND
		5-10	ND
10-15*		ND	
12/21/2021	SE-201	0-2*	1.5
		2-4	1
		4-6	ND
	SE-202	0-2*	1.2
		2-4	ND
		4-6	ND
	SE-203	0-2*	7.5
		2-4	ND
		4-6	ND
	SE-204	0-2	ND
		2-4*	1
		4-6	ND
	SE-205	0-2	ND
		2-4	ND
		4-6*	ND
1/10/2022	SE-301(MW)	0-5	ND
		5-10	ND
		10-15	ND
		15-20	ND
		20-25	ND
		25-28*	ND
	SE-302(MW)	0-5	ND
		5-10	ND
		10-15*	ND

\*=Submitted for laboratory analysis  
BSG = Below Surface Grade  
ND = Not Detected (<1ppmV)  
ppmV = parts per million by volume

**Table 2**  
**Summary of Soil Sample Chemical Analysis Results**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Sample ID (Depth (Feet))/Date	SE-101 (0-2')	SE-101 (10-15')	SE-102 (10-15')	SE-103 (0-2')	SE-104 (0-2')	SE-105 (0-2')	SE-105 (10-15')	SE-201 (0'-2')	SE-202 (0'-2')	SE-203 (0'-2')	SE-204 (2'-4')	SE-205 (4'-6')	SE-203 (4'-6')	SE-301 (25-28)	SE-302 (10-15)	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commercial Direct Exposure Criteria	RIDEM Method 1 GB Leachability Criteria
	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/21/2021	1/4/2022			
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result			
<b>Metals, Total (mg/kg)</b>																		
Arsenic	3.54	NA	NA	29.3	8.01	3.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	NE
Beryllium	0.37	NA	NA	0.84	0.71	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	1.3	NE
Cadmium	0.87	NA	NA	1.7	1.72	1.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	1,000	NE
Chromium	8.09	NA	NA	17.2	21.8	16.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
Copper	14.8	NA	NA	47.2	153	13.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100	10,000	NE
Lead	13.9	NA	NA	107	125	25.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	150	500	NE
Mercury	< 0.03	NA	NA	0.12	0.13	< 0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	610	NE
Nickel	9.41	NA	NA	8.88	10.5	14.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,000	10,000	NE
Silver	< 0.37	NA	NA	0.47	0.5	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	10,000	NE
Zinc	38.5	NA	NA	64.3	161	118	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,000	10,000	NE
<b>TPH By SW8015D DRO (mg/kg)</b>																		
Total TPH	< 54	< 52	< 53	< 61	250	< 58	< 58	NA	NA	NA	NA	NA	NA	NA	NA	500	2,500	2,500
<b>PCBs By SW8082A (mg/kg)</b>																		
Total PCBs	< 0.37	< 0.35	< 0.36	< 0.4	< 0.38	< 0.38	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	10	10	10
<b>Volatiles By SW8260C (mg/kg)</b>																		
Ethylbenzene	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	< 0.0054	< 0.0059	0.57	< 0.0053	< 0.0049	0.0083	< 0.0042	< 0.0043	71	10,000	62
m&p-Xylene	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	< 0.0054	< 0.0059	0.27	< 0.0053	< 0.0049	< 0.0057	< 0.0042	< 0.0043	NE	NE	NE
o-Xylene	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	< 0.0054	< 0.0059	0.22	< 0.0053	< 0.0049	< 0.0057	< 0.0042	< 0.0043	NE	NE	NE
Tetrachloroethene	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	0.26	0.86	0.0042	0.16	< 0.0049	< 0.0057	0.21	< 0.0043	12	110	4.2
Total Xylenes	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	< 0.0054	< 0.0059	0.49	< 0.0053	< 0.0049	< 0.0057	< 0.0042	< 0.0043	110	10,000	NE
Trichloroethene	< 0.006	< 0.0059	< 0.0047	< 0.007	< 0.0073	< 0.005	< 0.0057	0.4	0.77	< 0.0037	0.085	< 0.0049	< 0.0057	0.23	< 0.0043	13	520	20
<b>Polynuclear Aromatic HC By SW8270D (mg/kg)</b>																		
Anthracene	< 0.26	NA	NA	< 0.28	0.52	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	10,000	NE
Benz(a)anthracene	< 0.26	NA	NA	1.1	2.4	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	7.8	NE
Benzo(a)pyrene	< 0.26	NA	NA	1.1	2.2	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	0.8	NE
Benzo(b)fluoranthene	< 0.26	NA	NA	1.1	2.5	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	7.8	NE
Benzo(ghi)perylene	< 0.26	NA	NA	0.74	1.2	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.8	10,000	NE
Benzo(k)fluoranthene	< 0.26	NA	NA	1.1	2	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	78	NE
Chrysene	< 0.26	NA	NA	1.2	2.6	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	780	NE
Dibenz(a,h)anthracene	< 0.26	NA	NA	< 0.28	0.36	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	0.8	NE
Fluoranthene	< 0.26	NA	NA	1.6	3.6	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	10,000	NE
Indeno(1,2,3-cd)pyrene	< 0.26	NA	NA	0.82	1.5	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.9	7.8	NE
Phenanthrene	< 0.26	NA	NA	1.1	2.4	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	10,000	NE
Pyrene	< 0.26	NA	NA	1.4	2.9	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	10,000	NE

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

NA: Not analyzed.

mg/kg: miligram per kilogram



**Table 3**  
**Groundwater Gauging Log**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Monitoring Well ID	Well Diameter (inches)	Date	Depth to Product (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Measuring Point Elevation (Feet)	Groundwater Elevation (Feet)	Final Turbidity Reading (NTU)
SE-101(MW)	1"	11/22/2021	-	28.83	40	NS		2.63
		5/2/2023	-	28.6	39.86	97.11	68.51	NR
SE-102(MW)	1"	11/22/2021	-	31.71	39.00	NS		100+
		5/2/2023	-	31.47	NG	100.00	68.53	NR
SE-105(MW)	1"	11/22/2021	-	28.71	39.00	NS		2.16
		5/2/2023	-	27.83	NG	96.35	68.52	NR
SE-301(MW)	1"	1/10/2022	-	25.56	38.91	NS		NR
		5/2/2023	-	25.02	NG	93.38	68.36	NR
SE-302(MW)	1"	1/10/2022	-	25.98	39.58	NS		NR
		5/2/2023	-	25.46	NG	93.76	68.30	NR

-- = No separate-phase petroleum identified

NS = Not Surveyed

NR = Not Recorded

NG = Not Gauged

**Table 4**  
**Summary of Groundwater Sample Chemical Analysis Results**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Sample ID/Date	SE-101 (MW)	SE-102 (MW)	SE-105 (MW)	SE-301 (MW)	SE-302 (MW)	RIDEM Method 1 GB Groundwater Objectives	RIDEM GB Groundwater Upper Concentration Limits
	11/22/2021	11/22/2021	11/22/2021	1/10/2022	1/10/2022		
Analyte	Sample Result	Sample Result	Sample Result	Sample Result	Sample Result		
<b>Volatile Organic Compounds (ug/l)</b>							
Chloroform	2	<1	<1	<1	<1	NE	NE
1,1-Dichloroethene	6	<1	<1	<1	<1	7	23000
Tetrachloroethene	<1	1	<1	<1	<1	150	NE
Trichloroethene	9	<1	4	12	3	540	87000

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

ug/l: microgram per liter

**Table 5**  
**Summary of Sub-Slab Soil Gas Sample Chemical Analysis Results**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Sample ID/Date	SE-SG-103	SE-SG-105	SE-SG-101	SE-SG-102	MassDEP Residential Sub-Slab Soil Gas Screening Values	MassDEP Commercial/Industrial Sub-Slab Soil Gas Screening Values
	11/22/2021	11/22/2021	11/22/2021	11/22/2021		
Analyte	Result	Result	Result	Result		
<b>Volatiles (TO15) - TO15 (µg/m<sup>3</sup>)</b>						
1,1,1-Trichloroethane	317	< 13.6	812	147	210	311000
1,1,2,2-Tetrachloroethane	< 17.2	< 17.2	< 17.2	< 17.2	2.8	14
1,1,2-Trichloroethane	< 13.6	< 13.6	< 13.6	< 13.6	10	50
1,1-Dichloroethane	197	< 10.1	20.9	< 10.1	56	50000
1,2,4-Trimethylbenzene	210	139	120	141	NE	NE
1,2-Dibromoethane(EDB)	< 19.2	< 19.2	< 19.2	< 19.2	0.54	2.7
1,2-Dichloroethane	< 10.1	< 10.1	< 10.1	< 10.1	6.3	31
1,2-dichloropropane	< 11.5	< 11.5	< 11.5	< 11.5	8.6	42
1,3,5-Trimethylbenzene	57	37.8	36	42	NE	NE
4-Ethyltoluene	176	118	117	131	NE	NE
Acetone	80.2	46.8	56.5	70.3	6400	50000
Benzene	22.4	16.6	20.3	20.7	160	800
Bromodichloromethane	< 13.4	< 13.4	< 13.4	< 13.4	9.2	45
Chloroethane	11.6	< 6.59	< 6.59	< 6.59	NE	NE
Cis-1,2-Dichloroethene	230	< 9.9	76.1	12.4	56	370
Cyclohexane	71.6	48.2	55.4	64	NE	NE
Dibromochloromethane	< 21.3	< 21.3	< 21.3	< 21.3	6.8	33
Ethanol	422	266	320	365	NE	NE
Ethylbenzene	151	116	135	147	520	62000
Heptane	106	79.9	90.1	104	NE	NE
Hexachlorobutadiene	< 26.6	< 26.6	< 26.6	< 26.6	7.4	320
Hexane	76.4	54.2	62	71.5	NE	NE
Isopropylalcohol	< 6.14	16.9	13.7	16.6	NE	NE
Isopropylbenzene	14.5	< 12.3	< 12.3	12.6	NE	NE
m,p-Xylene	534	410	477	508	NE	NE
Methyl Ethyl Ketone	90.5	53.6	70.7	84	840	310000
o-Xylene	184	137	155	172	NE	NE
Tetrachloroethene	23.7	< 6.78	637	141	98	290
Toluene	572	456	539	576	3800	310000
Trichloroethene	423	< 5.37	4620	956	28	120

**Cells with this color indicate:** Cases where a reporting limit is not sufficiently low for evaluating compliance with one or more of the limits provided.

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

µg/m<sup>3</sup>: micrograms per cubic meter

**Table 6**  
**Summary of Indoor/Ambient Air Sample Chemical Analysis Results**  
**1144 Eddy Street, Providence, RI**  
**RIDEM Case No. SR-28-2076**

Sample ID/Date	SE-IA-101	SE-IA-102	SE-IA-103	SE-IA-201	SE-IA-202	SE-IA-203	SE-IA-204	SE-IA-205	SE-IA-206	MassDEP Residential Threshold Values	MassDEP Commercial/Industrial Threshold Values	SE-AA-101	SE-AA-201
	12/20/2021	12/20/2021	12/20/2021	04/25/2023	04/25/2023	04/25/2023	04/25/2023	04/25/2023	04/25/2023			12/20/2021	04/25/2023
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result			Result	Result
<b>Volatile Organic Compounds by EPA Method TO15 (µg/m<sup>3</sup>)</b>												<b>Standards Not Applicable</b>	
1,1,1-Trichloroethane	1.94	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	3	4400	< 1.36	< 1.36
1,2,4-Trimethylbenzene	< 1.23	< 1.23	< 1.23	5.36	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
1,2-Dibromoethane(EDB)	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.0078	0.038	< 0.04	< 0.04
1,2-Dichloroethane	0.06	0.07	0.06	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.44	0.06	0.09
1,3,5-Trimethylbenzene	< 1.23	< 1.23	< 1.23	1.7	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
4-Ethyltoluene	< 1.23	< 1.23	< 1.23	6.24	< 1.23	< 1.23	< 1.23	< 1.23	< 1.23	NE	NE	< 1.23	< 1.23
Acetone	6.39	8.17	7.62	44.9	< 0.89	29.7	< 0.89	< 0.89	28.3	91	710	3.58	70.3
Benzene	0.79	0.8	0.82	1.09	1.07	0.95	1.01	0.9	0.95	2.3	11	0.74	0.98
Bromodichloromethane	0.21	0.17	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	0.13	0.65	< 0.07	< 0.07
Carbon Tetrachloride	0.47	0.51	0.46	0.43	0.43	0.42	0.43	0.4	0.43	0.54	1.9	0.46	0.39
Chloroform	1.67	1.22	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	1.9	3	< 0.49	< 0.49
Chloromethane	1.09	1.21	1.06	1.32	1.25	1.21	1.28	1.2	1.28	NE	NE	1.1	1.27
Cis-1,2-Dichloroethene	1.13	0.99	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.8	5.3	< 0.40	< 0.40
Cyclohexane	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	1.1	< 0.86	1.04	< 0.86	NE	NE	< 0.86	1.13
Dichlorodifluoromethane	2.13	2.44	2.13	2.39	2.07	2.26	2.42	2.26	2.34	NE	NE	2.16	2.16
Ethanol	6.76	8.55	8.02	15.3	2.24	12.7	11.3	8.85	12.7	NE	NE	4.65	43.1
Ethyl acetate	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	NE	NE	< 0.90	3.46
Heptane	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	< 1.02	NE	NE	< 1.02	1.08
Hexane	< 0.79	0.85	< 0.79	3.03	3.19	2.82	3.11	2.73	2.94	NE	NE	< 0.79	2.61
Isopropylalcohol	1.27	1.71	1.57	3.24	< 0.92	2	0.96	< 0.92	1.45	NE	NE	< 0.92	2.53
m,p-Xylene	< 2.17	< 2.17	< 2.17	2.64	2.53	2.42	2.55	< 2.17	2.47	NE	NE	< 2.17	< 2.17
Methyl Ethyl Ketone	< 0.66	0.67	< 0.66	8.61	0.84	1.35	0.87	0.91	0.91	12	4400	< 0.66	1.26
Naphthalene	< 0.26	0.49	0.28	0.87	< 0.26	0.6	0.39	0.52	0.55	0.6	2.7	< 0.26	0.29
o-Xylene	< 1.08	< 1.08	< 1.08	1.19	< 1.08	< 1.08	< 1.08	< 1.08	< 1.08	NE	NE	< 1.08	< 1.08
Styrene	< 0.43	< 0.43	< 0.43	1.06	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	1.4	20	< 0.43	< 0.43
Tetrachloroethene	11.3	6.76	0.79	0.35	< 0.34	< 0.34	< 0.34	0.58	< 0.34	1.4	4.1	< 0.34	< 0.34
Tetrahydrofuran	< 0.74	< 0.74	< 0.74	9.6	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	NE	NE	< 0.74	< 0.74
Toluene	1.64	1.74	1.39	5.05	5.24	4.63	4.97	3.99	4.37	54	4400	1.25	3.42
Trichloroethene	14.1	8.32	0.52	0.16	< 0.13	< 0.13	< 0.13	0.19	< 0.13	0.4	1.8	< 0.13	< 0.13
Trichlorofluoromethane	< 1.40	< 1.40	< 1.40	1.41	< 1.40	1.45	1.53	< 1.40	1.41	NE	NE	< 1.40	< 1.40
Vinyl Chloride	0.18	0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.27	1.3	< 0.13	< 0.13

**Cells with this color indicate:** Cases where a reporting limit is not sufficiently low for evaluating compliance with one or more of the limits provided.

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

**Cells with this color indicate:** Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Threshold Value not established for this substance

µg/m<sup>3</sup>: micrograms per cubic meter

## **APPENDIX A**

## **LIMITATIONS**

1. This report was prepared for the exclusive use of 1144 Eddy Street, LLC. (“Client”). This report and any findings and conclusions contained therein shall not, in whole or in part, be provided to, used, or relied upon by any other person, firm, entity or governmental agency in whole or in part, without the prior written approval of SAGE. Reliance by any other person, firm, entity, or governmental agency in whole or in part, for any use, without SAGE’s prior written approval, shall be at that party’s sole risk and without any liability to SAGE.
2. This report, and the findings and conclusions contained therein, are based on services provided to Client under the conditions stated herein, pursuant to the agreement between SAGE and Client. Use of this report, in whole or in part, at other locations or for other purposes, without SAGE’s prior written approval, will be at Client’s sole risk and without any liability to SAGE.
3. This report has been prepared in accordance with generally accepted practices. SAGE’s services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property.
4. In preparing this report, SAGE may have relied upon certain information made available by governmental agencies, Client, and/or other persons, firms, or entities. SAGE cannot verify the accuracy or completeness of that information and cannot guarantee or warrant the information provided by non-SAGE sources.
5. SAGE does not and cannot represent that a site contains no hazardous material, oil, or other condition beyond that observed by SAGE during its study. Additionally, SAGE does not assume responsibility for limited sampling and explorations, fluctuations in water levels, or the presence of chemical constituents that are not the subject of this investigation and which are not included in the of analyzed parameters for a study.
6. The findings and conclusions presented in this report are based solely on the information contained or referenced in this report. If additional environmental or other relevant information that was not made available to SAGE at the time of this report is developed at a later date, Client agrees to promptly bring such information to the attention of SAGE. Upon evaluation of such information, SAGE reserves the right to recommend modification of this report and its findings and conclusions.
7. No warranty, express or implied, is made by way of SAGE’s performance of services or providing a work product, including but not limited to any warranty with the contents of a report or with any and all work product.

## **APPENDIX B**



# Section 1.20 of the "Remediation Regulations" Site Investigation Report (SIR) Checklist

(The following information shall be completed and submitted with the SIR)

Contact Name: Jacob H. Butterworth, SAGE Environmental, Inc.

Contact Address: 301 Friendship Street, Providence, RI 02903

Contact Telephone: 401-723-9900

Site Name:

Site Address: 1144 Eddy Street, Providence, RI

## OFFICE USE ONLY

SITE INVESTIGATION REPORT (SIR) SITE:

PROJECT CODE:

SIR SUBMITTAL DATE:

CHECKLIST SUBMITTAL DATE:

**DIRECTIONS:** *The box to the left of each item listed below is for the administrative review of the SIR submission and is for **RIDEM USE ONLY**. Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references may delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.*

- 1.8.3(A)(1) List specific objectives of the SIR related to characterization of the Release, impacts of the Release and remedy.  
Section 1, Page 1
- 1.8.3(A)(2) Include information reported in the Notification of Release. A copy of the Release notification form should be included in the SIR. Include information relating to short-term response, if applicable.  
Section 2, Page 1. Appendix C
- 1.8.3(A)(3) Include documentation of any past incidents or Releases.  
Section 3, Pages 1 & 2
- 1.8.3(A)(4) Include list of prior property Owners and Operators, as well as sequencing of property transfers and time periods of occupancy.  
Section 4, Pages 2 & 3
- 1.8.3(A)(5) Include previously existing environmental information which characterizes the Contaminated-Site and all information that led to the discovery of the Contaminated-Site.  
Section 5, Pages 5 & 6
- 1.8.3(A)(6) Include current uses and zoning of the Contaminated-Site, including brief statements of operations, processes employed, waste generated, Hazardous Materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are

those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)

Section 6, Pages 5 & 6

- 1.8.3(A)(7) Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

Figure 1

- 1.8.3(A)(8) Include a site plan, to scale, showing:

- Buildings
- Activities
- Structures
- North Arrow
- Wells
- UIC Systems, septic tanks, UST, piping and other underground structures
- Outdoor Hazardous Materials storage and handling areas
- Extent of paved areas
- Location of environmental samples previously taken with analytical results
- Waste management and disposal areas
- Property Lines

Figure 2

- 1.8.3(A)(9) Include a general characterization of the property surrounding the area including, but not limited to:

- Location and distance to any surface water bodies within 500 ft of the site.
- Location and distance to any Environmentally Sensitive Areas within 500 ft of the site.
- Actual sources of potable water for all properties immediately abutting the site.
- Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site.

- Determination as to whether the Release impacts any off-site area utilized for residential or industrial/commercial property or both.
- Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area.

Figure 3

- 1.8.3(A)(10) Include classifications of surface and ground water at and surrounding the site that could be impacted by a Release.

Sections 9 & 10, Pages 7 & 8

- 1.8.3(A)(11) Include a description of the contamination from the Release, including:

- Free liquids on the surface
- LNAPL and DNAPL
- Concentrations of Hazardous Substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives (reference Section 1.13)
- Impact to Environmentally Sensitive Areas
- Contamination of man-made structures
- Odors or stained soil
- Stressed vegetation
- Presence of excavated or stockpiled material and an estimate of its total volume
- Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
- List of Hazardous Substances at the site
- Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands.

Section 11, Pages 8-16

- 1.8.3(A)(12) Include the concentration gradients of Hazardous Substances throughout the site for each media impacted by the Release.

Section 12, Page 16

- 1.8.3(A)(13) Include the methodology and results of any investigation conducted to determine background concentrations of Hazardous Substances identified at the Contaminated-Site (see Section 1.13).

Section 13, Page 16

- 1.8.3(A)(14) Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of Hazardous Substances throughout and away from the site, including but not limited to, where appropriate:

- Depth to GW
- Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration
- Characterization of bedrock
- Groundwater contours, flow rates and gradients throughout the site

Section 14, Page 17

- 1.8.3(A)(15) Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site.

Section 15, Pages 17-18

- 1.8.3(A)(16) Include the potential for Hazardous Substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.

Section 16, Page 18

- 1.8.3(A)(17) Include the potential for entrainment of Hazardous Substances from the site by wind or erosion actions.

Section 17, Page 18

- 1.8.3(A)(18) Include detailed protocols for all fate and transport models used in the Site Investigation.

Section 18, Page 18

- 1.8.3(A)(19) Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure).

Section 19, Page 18. Tables 1-6. Figure 2, & 4-6

- 1.8.3(A)(20) Include construction plans and development procedures for all monitoring wells. Well construction shall be consistent with the requirements of the Groundwater Quality Rules.

Appendix E

- 1.8.3(A)(21) Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.

Section 21, Page 19

- 1.8.3(A)(22) Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.

Section 22, page 19

- 1.8.3(A)(23) Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate Remedial Action to be taken at the site.

NA

- 1.8.4 Include Remedial Alternatives. The Site Investigation Report shall contain a minimum of **TWO (2)** remedial alternatives other than no action/natural attenuation alternative, unless this requirement is waived by the Department. It should be clear which of these alternatives is most preferable. All alternatives shall be supported by relevant data contained in the Site Investigation Report and consistent with the current and reasonably foreseeable land usage, and documentation of the following:

- Compliance with Section 1.9 (RISK MANGEMENT);
- Technical feasibility of the preferred remedial alternative;
- Compliance with federal, state and local laws or other public concerns; and
- The ability of the Performing Party to perform the preferred remedial alternative.

Section 25, Pages 19-21

- 1.8.5 **Certification Requirements:** The Site Investigation Report and all associated progress reports shall include the following statements signed by an authorized representative of the party specified:

A statement signed by an authorized representative of the Person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and

A statement signed by the Performing Party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the Release and contains all known facts surrounding the Release to the best of their knowledge.

Section 7, Page 22

- 1.8.6 **Progress Reports:** If the Site Investigation is not complete, include a schedule for the submission of periodic progress reports on the status of the investigation and interim reports on any milestones achieved in the project.

- Public Involvement and Notice:** Be prepared to implement public notice requirements per Sections 1.8.7 and 1.8.9 of the Remediation Regulations when the Department deems the Site Investigation Report to be complete.

Indicate if the site falls within an Environmental Justice (EJ) area and, if applicable, include all EJ public notice documentation issued, and the list of recipients.

Located within EJ Area. Appendix K

## **APPENDIX C**



March 25, 2022

Rhode Island Department of Environmental Management  
Office of Land Revitalization & Sustainable Materials Management  
Site Remediation & Brownfields  
235 Promenade Street  
Providence, Rhode Island 02908  
*Sent via hard copy & email: [DEM.OWMSiteRemNor@dem.ri.gov](mailto:DEM.OWMSiteRemNor@dem.ri.gov)*

**RE: Release Notification**  
**1144 Eddy Street**  
**Assessor's Plat 57, Lot 291**  
**Providence, Rhode Island**  
**SAGE Project No. S3977**

To Whom it May Concern,

SAGE Environmental Inc. (SAGE) on behalf of 1144 Eddy Street, LLC, is submitting the attached Hazardous Material Release Notification Form and attachments relative to the refined property (hereinafter, "Site"). Note, 1144 Eddy Street, LLC is submitting this package voluntarily as a Bona Fide Prospective Purchaser (BFP). BFP documents are being submitted simultaneously with this notification.

In January 2022 as part of due diligence, SAGE evaluated soil, groundwater, soil gas and indoor air.

On November 22, 2021, SAGE advanced five (5) soil borings. Soil results are as follows:

- Arsenic and benzo(a)pyrene were detected at concentrations above the applicable RIDEM Method 1 Residential Direct Exposure Criteria (R-DEC) and Industrial/Commercial Direct Exposure Criteria (I/C-DEC) in shallow soil samples SE-103 (0' – 2') and SE-104 (0' – 2');
- Beryllium and select PAHs were detected at concentrations above the RIDEM Method 1 R-DEC but below the I/C-DEC in soil samples SE-103 (0' – 2') and SE-104 (0' – 2');
- Beryllium was detected at a concentration above the RIDEM Method 1 R-DEC but below the I/C-DEC in soil sample SE-105 (0' – 2').

Three (3) soil borings were completed as groundwater monitoring wells. Impacts to groundwater were not identified.

On November 19, 2021, four (4) soil gas sampling points were installed through the concrete slab of the Site building using a hammer drill. The following provides a summary of the analytical detections from the November 22, 2021, sampling event:



- SE-SG-101: 1,1,1-trichloroethane and cis-1,2-dichloroethene (cis-1,2-DCE) were detected at concentrations above the MassDEP R-SSGS. PCE and TCE were detected at concentrations exceeding both the MassDEP R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-102: PCE was detected at a concentration above the MassDEP R-SSGS. TCE was detected at a concentration exceeding both the MassDEP VI R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-103: 1,1,1-trichloroethane, 1,1-dichloroethane and cis-1,2-DCE were detected at concentrations above the MassDEP VI R-SSGS. PCE was detected at a concentration exceeding both the MassDEP VI Guidance for R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-105: All analytes, where detected, were complaint with MassDEP VI Guidance for residential values for sub-slab soil gas.

SAGE returned to the Site on December 21, 2021, and January 4, 2022, to install seven additional soil borings. Detected analytes were not above applicable RIDEM Method 1 standards. Two (2) of the seven (7) borings were completed as groundwater monitoring wells. Results of sampling of the monitoring wells did not identify analytes above applicable standards.

On December 20, 2021, SAGE deployed three (3) summa canisters within the Site building and one (1) outdoor ambient air summa canister. Indoor air sample SE-IA-101 was collected from the basement located towards the eastern portion of the Site building and indoor air sample SE-IA-102 was collected from the ground floor located towards the western portion of the Site building. Ambient air sample SE-IA-103 was placed along the western exterior of the Site building. Laboratory analytical results were compared to the MassDEP VI Guidance Threshold Values (TVs) for Residential (R-TVs) and Commercial/Industrial (C/I-TVs) settings. The following provides a summary of the analytical detections from the December 20, 2021, sampling event:

- SE-IA-101: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations above the MassDEP VI Guidance for R-TVs for indoor air;
- SE-IA-102: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations above the MassDEP VI Guidance for R-TVs for indoor air; and
- SE-IA-103: TCE was detected in the ambient air sample at a concentration above the MassDEP VI Guidance for R-TVs for indoor air.

SAGE evaluated soil, groundwater, sub-slab soil gas and indoor air for potential contaminants of concern. The results of this investigation identified select PAHs within soil in excess of RIDEM Method 1 R-DEC and/or I/C-DEC. Additionally, within soil, arsenic and beryllium were detected above RIDEM Method 1 R-DEC and/or I/C-DEC. Groundwater was evaluated for VOCs, and although detections were found, they are not in excess of applicable GB-GWOS. During the assessment of sub-slab soil gas, detections of select chlorinated VOCs were found toward the easterly end of the Site structure exceeding MassDEP R-SSGS and/or C/I-SSGS. The levels within the soil gas suggested the possibility of elevated VOCs within soil as well as the possibility of vapor intrusion. As such, additional testing of soil beneath the Site structure toward the soil gas detection was performed, and results of the testing did identify various chlorinated

VOCs, however, not at levels exceeding RIDEM Method 1 R-DEC or applicable GB-LC. Indoor air testing did detect chlorinated VOCs, namely PCE, TCE, and cis-1,2-DCE exceeding MassDEP R-TVs and/or C/I-TVs. The detection of these VOCs within groundwater, soil, soil gas, and indoor air indicates a complete vapor intrusion pathway.

Should you have any questions, comments, or require further information, please contact the undersigned at (401) 723-9900.

Sincerely,  
SAGE Environmental, Inc.

*Jacob H. Butterworth*  
Jacob H. Butterworth, MS, LSP  
Vice President

JHB:alm

Attachments

- Attachment 1** Hazardous Material Release Notification
- Attachment 2** Bona Fide Prospective Purchaser Certification Statement

# **ATTACHMENT 1**

**Office of Land Revitalization & Sustainable Materials Management  
Site Remediation Section**

**HAZARDOUS MATERIAL RELEASE NOTIFICATION FORM**

**THIS FORM IS NOT TO BE USED TO REPORT AN IMMINENT HAZARD**

**1. Notifier Information:**

Name: SAGE Environmental, Inc.

Address: 301 Friendship Street, Providence, RI 02903

Phone: 401-723-9900

Email: jbutterworth@sage-enviro.com

Status:  Environmental Professional  Secured Creditor  
 Owner  Voluntary  
 Operator

If Environmental Professional is selected, please supply the follow information for your client below:

Name: 1144 Eddy Street, LLC, Attn: Joseph Paolino

Address: 100 Westminster Street, Providence, RI 02903

Phone: 401-274-6611

Email: jpaolino@paolinoproperties.com

Status:  Owner  Secured Creditor  
 Operator  Voluntary as BFP

**2. Property Information:**

Name of Site: Commercial Property

Site Address: 1144 Eddy Street, Providence, RI 02905

Plat/Lot Numbers: Plat 57, Lot 291

Approximate Acreage of Property: 0.39 of an acre

Latitude/Longitude: 41.79487924779399, -71.4040556680053

Site Land Usage Type:  Residential  Industrial/Commercial

Location of Release (Attach site sketch as necessary):  
Plan attached.

**3. Release Information:**

Date of Discovery: November 2021

Source: Historical use

Release Media: **Soil, Soil Gas, Indoor Air**

Hazardous Materials and Concentrations (Attach certificates of analysis as necessary):

**Soil: Arsenic above RIDEM Method 1 I/C-DEC, Beryllium above R-DEC, Benzo(a)pyrene above I/C-DEC, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Indeno(1,2,3-cd)pyrene above R-DEC.**

**Soil Gas: 1,1,1-Trichloroethane, 1,1-Dichloroethane, Cis-1,2-Dichloroethene above MassDEP R-SSGS, PCE & TCE above MassDEP C/I SSGS. Indoor Air: Bromodichloromethane, Cis-1,2-Dichloroethene above MassDEP R-TVs, PCE & TCE above MassDEP C/I-TVs**

Extent of Contamination:

**Limited to Site parcel**

Approximate acreage of Contaminated Area: **0.39**

**4. Resource Information:**

Site Land Usage:  Industrial/Commercial  Residential  
Adjacent Land Usage:  Industrial/Commercial  Residential  
Site Groundwater Class:  GA/GAA  GB  
Adjacent Groundwater Class:  GA/GAA  GB  
(if different than site groundwater classification within 500 feet)  
Nearest Surface Water or Wetland:  Less Than 500 Feet  Greater Than 500 Feet  
Potential for adverse impact?  Yes  No

**5. Potentially Responsible Parties:**

Name: **Federal Products Corp.**

Address: **1144 Eddy Street, Providence, RI 02905**

Status:  Owner  Operator  Other:

Name:

Address:

Status:  Owner  Operator  Other:

**6. Measures taken or proposed to be taken in response to Release:**

**Additional investidragation**

Check all that apply:  Site Investigation  Short-Term/Emergency  
 EXPRESS Policy  Dig & Haul Policy

**7. Other significant remarks about Release (Will a background determination be made?)**

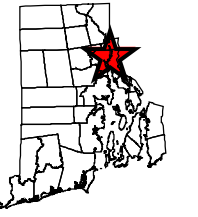
**None**

Signature: *Jacob H. Butterworth*

Date: 03/25/2022

Title: Vice President, SAGE Environmental, Inc.





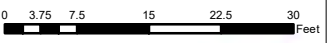
★ Site Location

### Legend

- Approximate Site Boundary
- + Monitoring Well Location
- + Soil Boring Location
- + Hand Auger Location
- Soil Gas Point Location
- ▲ Indoor/Ambient Air Sample Location
- Approximate Drain Location



Note: All locations are approximate and for illustrative purposes only.



Data Provided by RIGIS  
Orthoimagery provided by [nearmap.com](http://nearmap.com)

## Site Plan

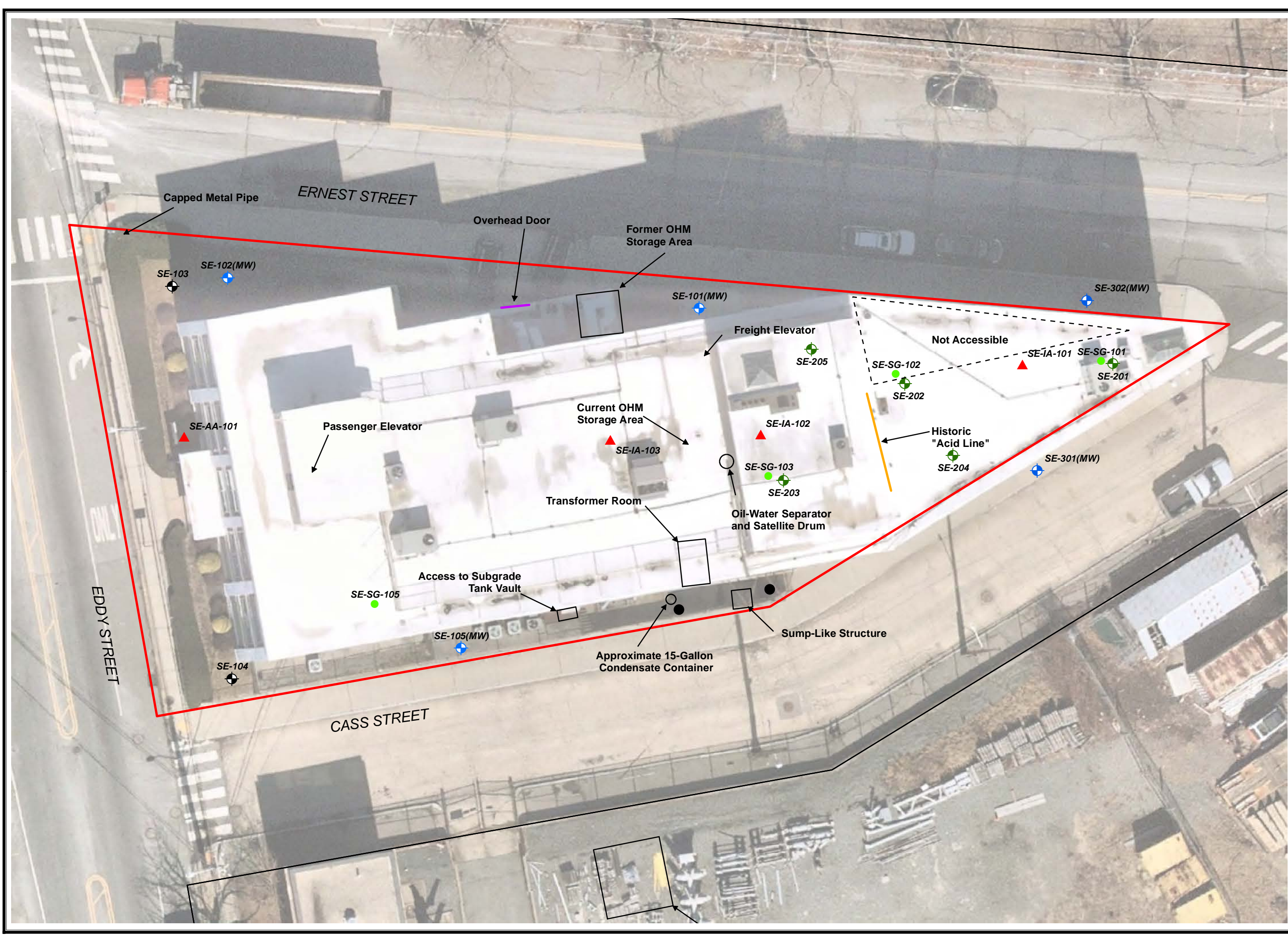
1144 Eddy Street  
Providence, Rhode Island

Date: 01/11/2022

Job#: S3977

Created By: ALM/jpl

## Figure 2





Soil Analytical Results - 1144 Eddy Street, Providence, RI

Sample ID/Date	SE-101 (0-2')	SE-101 (10-15')	SE-102 (10-15')	SE-103 (0-2')	SE-104 (0-2')	SE-105 (0-2')	SE-105 (10-15')	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 Industrial/Commercial Direct Exposure Criteria	RIDEM Method 1 GB Leachability Criteria
	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021	11/19/2021			
Analyte	Result	Result	Result	Result	Result	Result	Result			
<b>Miscellaneous/Inorganics</b>										
Percent Solid (%)	90	94	93	82	85	85	86	NE	NE	NE
<b>Metals, Total (mg/kg)</b>										
Arsenic	3.54	NA	NA	29.3	8.01	3.18	NA	7	7	NE
Beryllium	0.37	NA	NA	0.84	0.71	0.51	NA	0.4	1.3	NE
Cadmium	0.87	NA	NA	1.7	1.72	1.26	NA	39	1,000	NE
Chromium	8.09	NA	NA	17.2	21.8	16.3	NA	NE	NE	NE
Copper	14.8	NA	NA	47.2	153	13.6	NA	3,100	10,000	NE
Lead	13.9	NA	NA	107	125	25.2	NA	150	500	NE
Mercury	< 0.03	NA	NA	0.12	0.13	< 0.03	NA	23	610	NE
Nickel	9.41	NA	NA	8.88	10.5	14.8	NA	1,000	10,000	NE
Silver	< 0.37	NA	NA	0.47	0.5	< 0.37	NA	200	10,000	NE
Zinc	38.5	NA	NA	64.3	161	118	NA	6,000	10,000	NE
<b>TPH By SW8015D DRO (mg/kg)</b>										
Total TPH	< 54	< 52	< 53	< 61	250	< 58	< 58	500	2,500	2,500
Unidentified	< 54	< 52	< 53	< 61	**	< 58	< 58	NE	NE	NE
<b>PCBs By SW8082A (mg/kg)</b>										
	< 0.37	< 0.35	< 0.36	< 0.4	< 0.38	< 0.38	< 0.39	10	10	10
<b>Volatiles By SW8260C (mg/kg)</b>										
	<RL	<RL	<RL	<RL	<RL	<RL	<RL	Various	Various	Various
<b>Polynuclear Aromatic HC By SW8270D (mg/kg)</b>										
Anthracene	< 0.26	NA	NA	< 0.28	0.52	< 0.27	NA	35	10,000	NE
Benz(a)anthracene	< 0.26	NA	NA	1.1	2.4	< 0.27	NA	0.9	7.8	NE
Benzo(a)pyrene	< 0.26	NA	NA	1.1	2.2	< 0.27	NA	0.4	0.8	NE
Benzo(b)fluoranthene	< 0.26	NA	NA	1.1	2.5	< 0.27	NA	0.9	7.8	NE
Benzo(ghi)perylene	< 0.26	NA	NA	0.74	1.2	< 0.27	NA	0.8	10,000	NE
Benzo(k)fluoranthene	< 0.26	NA	NA	1.1	2	< 0.27	NA	0.9	78	NE
Chrysene	< 0.26	NA	NA	1.2	2.6	< 0.27	NA	0.4	780	NE
Dibenz(a,h)anthracene	< 0.26	NA	NA	< 0.28	0.36	< 0.27	NA	0.4	0.8	NE
Fluoranthene	< 0.26	NA	NA	1.6	3.6	< 0.27	NA	20	10,000	NE
Indeno(1,2,3-cd)pyrene	< 0.26	NA	NA	0.82	1.5	< 0.27	NA	0.9	7.8	NE
Phenanthrene	< 0.26	NA	NA	1.1	2.4	< 0.27	NA	40	10,000	NE
Pyrene	< 0.26	NA	NA	1.4	2.9	< 0.27	NA	13	10,000	NE

Result Detected   
 Result Exceeds Criteria

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

NA: Not analyzed.

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

**Groundwater Analytical Results - 1144 Eddy Street, Providence, RI  
November 22, 2021**

Sample ID/Date	SE-101 (MW)	SE-102 (MW)	SE-105 (MW)	RIDEM Method 1 GB Groundwater Objectives	RIDEM GB Groundwater Upper Concentration Limits
	11/22/2021	11/22/2021	11/22/2021		
Analyte	Sample Result	Sample Result	Sample Result		
<b>Volatile Organic Compounds (ug/l)</b>					
Chloroform	2	<1	<1	NE	NE
1,1-Dichloroethene	6	<1	<1	7	23000
Tetrachloroethene	<1	1	<1	150	NE
Trichloroethene	9	<1	4	540	87000

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

**January 10, 2022**

Sample ID/Date	SE-301 (MW)	SE-302 (MW)	RIDEM Method 1 GB Groundwater Objectives	RIDEM GB Groundwater Upper Concentration Limits
	1/10/2022	1/10/2022		
Analyte	Sample Result	Sample Result		
<b>Volatile Organic Compounds (ug/l)</b>				
Trichloroethene	12	3	540	87000

**Cells with this color indicate:** Cases where the analyte was detected but is within the limits provided.

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

**Soil Gas Analytical Results - 1144 Eddy Street, Providence, RI**  
**November 22, 2021**

Sample ID/Date	SE-SG-103	SE-SG-105	SE-SG-101	SE-SG-102	MassDEP Residential Sub-Slab Soil Gas Screening Values	MassDEP Commercial/Industrial Sub-Slab Soil Gas Screening Values
	11/22/2021	11/22/2021	11/22/2021	11/22/2021		
Analyte	Result	Result	Result	Result		
<b>Volatiles (TO15) - TO15 (ug/m3)</b>						
1,1,1-Trichloroethane	317	< 13.6	812	147	210	311000
1,1,2,2-Tetrachloroethane	< 17.2	< 17.2	< 17.2	< 17.2	2.8	14
1,1,2-Trichloroethane	< 13.6	< 13.6	< 13.6	< 13.6	10	50
1,1-Dichloroethane	197	< 10.1	20.9	< 10.1	56	50000
1,2,4-Trimethylbenzene	210	139	120	141	NE	NE
1,2-Dibromoethane(EDB)	< 19.2	< 19.2	< 19.2	< 19.2	0.54	2.7
1,2-Dichloroethane	< 10.1	< 10.1	< 10.1	< 10.1	6.3	31
1,2-dichloropropane	< 11.5	< 11.5	< 11.5	< 11.5	8.6	42
1,3,5-Trimethylbenzene	57	37.8	36	42	NE	NE
4-Ethyltoluene	176	118	117	131	NE	NE
Acetone	80.2	46.8	56.5	70.3	6400	50000
Benzene	22.4	16.6	20.3	20.7	160	800
Bromodichloromethane	< 13.4	< 13.4	< 13.4	< 13.4	9.2	45
Chloroethane	11.6	< 6.59	< 6.59	< 6.59	NE	NE
Cis-1,2-Dichloroethene	230	< 9.9	76.1	12.4	56	370
Cyclohexane	71.6	48.2	55.4	64	NE	NE
Dibromochloromethane	< 21.3	< 21.3	< 21.3	< 21.3	6.8	33
Ethanol	422	266	320	365	NE	NE
Ethylbenzene	151	116	135	147	520	62000
Heptane	106	79.9	90.1	104	NE	NE
Hexachlorobutadiene	< 26.6	< 26.6	< 26.6	< 26.6	7.4	320
Hexane	76.4	54.2	62	71.5	NE	NE
Isopropylalcohol	< 6.14	16.9	13.7	16.6	NE	NE
Isopropylbenzene	14.5	< 12.3	< 12.3	12.6	NE	NE
m,p-Xylene	534	410	477	508	NE	NE
Methyl Ethyl Ketone	90.5	53.6	70.7	84	840	310000
o-Xylene	184	137	155	172	NE	NE
Tetrachloroethene	23.7	< 6.78	637	141	98	290
Toluene	572	456	539	576	3800	310000
Trichloroethene	423	< 5.37	4620	956	28	120

Result Detected   
 RL Exceeds Criteria   
 Result Exceeds Criteria

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

**Indoor Air Analytical Results - 1144 Eddy Street, Providence, RI  
December 20, 2021**

Sample ID/Date	SE-IA-102	SE-IA-103	SE-IA-101	MassDEP Residential Threshold Values	SE-AA-101
	12/20/2021	12/20/2021	12/20/2021		12/20/2021
Analyte	Result	Result	Result		Result
<b>Volatiles TO15 By TO15 (ug/m3)</b>					<b>Standards Not Applicable</b>
1,1,1-Trichloroethane	< 1.36	< 1.36	1.94	3	< 1.36
1,2-Dibromoethane(EDB)	< 0.04	< 0.04	< 0.04	0.0078	< 0.04
1,2-Dichloroethane	0.07	0.06	0.06	0.09	0.06
Acetone	8.17	7.62	6.39	91	3.58
Benzene	0.8	0.82	0.79	2.3	0.74
Bromodichloromethane	0.17	< 0.07	0.21	0.13	< 0.07
Carbon Tetrachloride	0.51	0.46	0.47	0.54	0.46
Chloroform	1.22	< 0.49	1.67	1.9	< 0.49
Chloromethane	1.21	1.06	1.09	NE	1.1
Cis-1,2-Dichloroethene	0.99	< 0.40	1.13	0.8	< 0.40
Dichlorodifluoromethane	2.44	2.13	2.13	NE	2.16
Ethanol	8.55	8.02	6.76	NE	4.65
Hexane	0.85	< 0.79	< 0.79	NE	< 0.79
Isopropylalcohol	1.71	1.57	1.27	NE	< 0.92
Methyl Ethyl Ketone	0.67	< 0.66	< 0.66	12	< 0.66
Naphthalene	0.49	0.28	< 0.26	0.6	< 0.26
Tetrachloroethene	6.76	0.79	11.3	1.4	< 0.34
Toluene	1.74	1.39	1.64	54	1.25
Trichloroethene	8.32	0.52	14.1	0.4	< 0.13
Vinyl Chloride	0.14	< 0.13	0.18	0.27	< 0.13

Result Detected   
 RL Exceeds Criteria   
 Result Exceeds Criteria 

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)  
 NE: Standard not established for this substance

**Soil Analytical Results - 1144 Eddy Street, Providence, RI  
December 21, 2021**

Sample ID/Date	SE-201 (0'-2')	SE-202 (0'-2')	SE-203 (0'-2')	SE-204 (2'-4')	SE-205 (4'-6')	SE-203 (4'-6')	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 GB Leachability Criteria
	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/21/2021	12/21/2021		
Analyte	Result	Result	Result	Result	Result	Result		
<b>Miscellaneous/Inorganics</b>								
Percent Solid (%)	90	95	93	98	94	94	NE	NE
<b>Volatiles By SW8260C (mg/kg)</b>								
Ethylbenzene	< 0.0054	< 0.0059	0.57	< 0.0053	< 0.0049	0.0083	71	62
m&p-Xylene	< 0.0054	< 0.0059	0.27	< 0.0053	< 0.0049	< 0.0057	NE	NE
o-Xylene	< 0.0054	< 0.0059	0.22	< 0.0053	< 0.0049	< 0.0057	NE	NE
Tetrachloroethene	0.26	0.86	0.0042	0.16	< 0.0049	< 0.0057	12	4.2
Total Xylenes	< 0.0054	< 0.0059	0.49	< 0.0053	< 0.0049	< 0.0057	110	
Trichloroethene	0.4	0.77	< 0.0037	0.085	< 0.0049	< 0.0057	13	20

Result Detected  

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance

**January 4, 2022**

Sample ID/Date	SE-301 (25-28)	SE-302 (10-15)	RIDEM Method 1 Residential Direct Exposure Criteria	RIDEM Method 1 GB Leachability Criteria
	1/4/2022	1/4/2022		
Analyte	Result	Result		
<b>Miscellaneous/Inorganics</b>				
Percent Solid (%)	95	94	NE	NE
<b>Volatiles By SW8260C (mg/kg)</b>				
Tetrachloroethene	0.21	< 0.0043	12	4.2
Trichloroethene	0.23	< 0.0043	13	20

Result Detected  

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

NE: Standard not established for this substance



Thursday, December 02, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: 53977  
SDG ID: GCJ83473  
Sample ID#s: CJ83473 - CJ83479

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 02, 2021

SDG I.D.: GCJ83473

Project ID: 53977

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Client Id	Lab Id	Matrix
SE-101 (0-2')	CJ83473	SOIL
SE-101 (10-15')	CJ83474	SOIL
SE-102 (10-15')	CJ83475	SOIL
SE-103 (0-2')	CJ83476	SOIL
SE-104 (0-2')	CJ83477	SOIL
SE-105 (0-2')	CJ83478	SOIL
SE-105 (10-15')	CJ83479	SOIL



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

11/19/21  
 11/22/21

Time

9:00  
 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83473

Project ID: 53977  
 Client ID: SE-101 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	3.54	0.73	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.37	0.29	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	0.87	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	8.09	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Copper	14.8	0.7	mg/kg	1	11/24/21	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	9.41	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Lead	13.9	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	38.5	0.7	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	90		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	72		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	70		%	10	11/23/21	SC	30 - 150 %
% TCMX	66		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	11/23/21	SC	30 - 150 %
<b><u>TPH by GC (Extractable (C9-C36))</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	83		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.03	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.03	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.3	mg/Kg	1	11/29/21	JLI	SW8260C

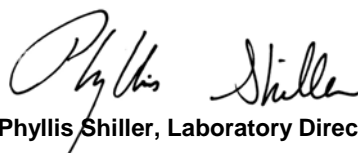
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0036	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	99		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	103		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	77		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	78		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	71		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 11/19/21                      9:30  
 11/22/21                      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83474

Project ID: 53977  
 Client ID: SE-101 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1254	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	76		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	11/23/21	SC	30 - 150 %
% TCMX	70		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	11/23/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	95		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.029	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.029	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.29	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0035	mg/Kg	1	11/30/21	JLI	SW8260C

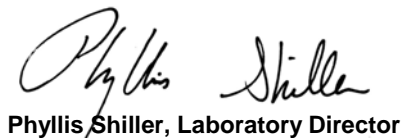


Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.035	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	96		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date      Time  
 11/19/21      10:30  
 11/22/21      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83475

Project ID: 53977  
 Client ID: SE-102 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1254	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	75		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	11/23/21	SC	30 - 150 %
% TCMX	64		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	11/23/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO

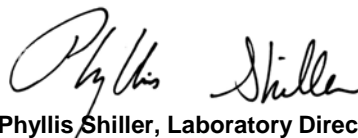
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	90		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0028	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0028	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	95		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

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 Phyllis Shiller, Laboratory Director

December 02, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time

11/19/21 11:30  
 11/22/21 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83476

Project ID: 53977  
 Client ID: SE-103 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.47	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	29.3	0.84	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.84	0.33	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.70	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	17.2	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Copper	47.2	0.8	mg/kg	1	11/24/21	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	8.88	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Lead	107	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	64.3	0.8	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	82		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	78		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	11/24/21	SC	30 - 150 %
% TCMX	71		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	11/24/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO

**QA/QC Surrogates**

% COD (surr)	80		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	11/24/21	JRB	50 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.035	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.035	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.35	mg/Kg	1	11/29/21	JLI	SW8260C

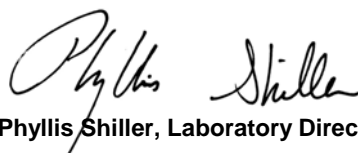
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0042	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.042	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	97		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	102		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	0.74	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	1.2	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	1.6	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.82	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	1.4	0.28	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	79		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	59		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time

11/19/21 12:30  
 11/22/21 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83477

Project ID: 53977  
 Client ID: SE-104 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.50	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	8.01	0.79	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.71	0.32	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.72	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	21.8	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Copper	153	0.8	mg/kg	1	11/24/21	TH	SW6010D
Mercury	0.13	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	10.5	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Lead	125	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	161	0.8	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	85		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	92		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	11/24/21	SC	30 - 150 %
% TCMX	76		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	11/24/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Fuel Oil #4	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Fuel Oil #6	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Kerosene	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Motor Oil	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Total TPH	250	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Unidentified	**	59	mg/kg	1	11/23/21	JRB	SW8015D DRO

**QA/QC Surrogates**

% COD (surr)	69		%	1	11/23/21	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	11/23/21	JRB	50 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.36	mg/Kg	1	11/29/21	JLI	SW8260C



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0044	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.044	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	98		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	102		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	0.52	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	2.4	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	2.2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	2.5	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	1.2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	2.6	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	0.36	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	3.6	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1.5	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	2.4	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	2.9	0.27	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	76		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	59		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

TPH Comment:

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date      Time

11/19/21      13:30  
 11/22/21      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83478

Project ID: 53977  
 Client ID: SE-105 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	3.18	0.74	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.51	0.29	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.26	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	16.3	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Copper	13.6	0.7	mg/kg	1	11/24/21	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	14.8	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Lead	25.2	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	118	0.7	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	85		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	87		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	114		%	10	11/24/21	SC	30 - 150 %
% TCMX	77		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	11/24/21	SC	30 - 150 %
<b><u>TPH by GC (Extractable (C9-C36))</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	84		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.25	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	95		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/30/21	JLI	70 - 130 %

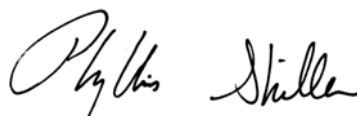


Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	79		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn: Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date      Time  
 11/19/21      14:00  
 11/22/21      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83479

Project ID: 53977  
 Client ID: SE-105 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1254	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	84		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	87		%	10	11/24/21	SC	30 - 150 %
% TCMX	79		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	11/24/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO

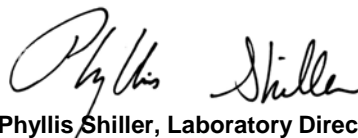
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	90		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	93		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	97		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

  
 Phyllis Shiller, Laboratory Director

December 02, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 02, 2021

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 601873 (mg/kg), QC Sample No: CJ83473 2X (CJ83473, CJ83476, CJ83477, CJ83478)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	106	108	1.9	85.5	85.4	0.1	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 601945 (mg/kg), QC Sample No: CJ83909 (CJ83473, CJ83476, CJ83477, CJ83478)

### ICP Metals - Soil

Antimony	BRL	3.3	<3.7	<3.5	NC	97.6	97.3	0.3	88.6			75 - 125	35
Arsenic	BRL	0.67	2.00	2.04	NC	95.9	101	5.2	93.1			75 - 125	35
Beryllium	BRL	0.27	0.40	0.50	NC	104	103	1.0	93.6			75 - 125	35
Cadmium	BRL	0.33	1.21	1.28	NC	106	106	0.0	97.5			75 - 125	35
Chromium	BRL	0.33	14.6	15.6	6.60	101	103	2.0	95.7			75 - 125	35
Copper	BRL	0.67	21.8	23.9	9.20	94.5	94.1	0.4	94.0			75 - 125	35
Lead	BRL	0.33	15.1	11.9	23.7	98.7	95.4	3.4	97.0			75 - 125	35
Nickel	BRL	0.33	14.2	13.4	5.80	110	110	0.0	90.9			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.4	NC	97.8	100	2.2	92.5			75 - 125	35
Silver	BRL	0.33	<0.37	<0.35	NC	81.8	86.5	5.6	88.6			75 - 125	35
Thallium	BRL	3.0	<3.3	<3.1	NC	103	108	4.7	92.8			75 - 125	35
Zinc	BRL	0.67	40.5	38.4	5.30	102	104	1.9	89.8			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.





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# QA/QC Report

December 02, 2021

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 601773 (mg/Kg), QC Sample No: CJ83474 (CJ83473, CJ83474, CJ83475, CJ83476, CJ83477, CJ83478, CJ83479)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	97	96	1.0	89	111	22.0	60 - 120	30
% COD (surr)	69	%	90	120	28.6	102	113	10.2	50 - 150	30
% Terphenyl (surr)	78	%	82	86	4.8	83	96	14.5	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 601755 (mg/Kg), QC Sample No: CJ83259 2X (CJ83473, CJ83474, CJ83475, CJ83476)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	84	85	1.2	93	87	6.7	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	92	83	10.3	95	86	9.9	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	95	%	103	85	19.1	92	85	7.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	76	%	88	86	2.3	86	78	9.8	30 - 150	30
% TCMX (Surrogate Rec)	84	%	90	83	8.1	91	85	6.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	80	%	90	83	8.1	89	85	4.6	30 - 150	30
QA/QC Batch 601942 (mg/Kg), QC Sample No: CJ83477 2X (CJ83477, CJ83478, CJ83479)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	79	78	1.3	86	92	6.7	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	79	75	5.2	82	81	1.2	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	72	%	83	80	3.7	85	128	40.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	69	%	79	70	12.1	74	78	5.3	30 - 150	30
% TCMX (Surrogate Rec)	69	%	75	75	0.0	78	84	7.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	68	%	76	76	0.0	77	83	7.5	30 - 150	30
QA/QC Batch 601767 (mg/Kg), QC Sample No: CJ83473 (CJ83473, CJ83476, CJ83477, CJ83478)										
<u>Polynuclear Aromatic HC - Soil</u>										
2-Methylnaphthalene	ND	0.23	78	76	2.6	70	70	0.0	40 - 140	30
Acenaphthene	ND	0.23	84	81	3.6	75	78	3.9	30 - 130	30

QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acenaphthylene	ND	0.23	76	74	2.7	67	71	5.8	40 - 140	30
Anthracene	ND	0.23	87	85	2.3	80	84	4.9	40 - 140	30
Benz(a)anthracene	ND	0.23	90	86	4.5	82	90	9.3	40 - 140	30
Benzo(a)pyrene	ND	0.23	84	81	3.6	78	83	6.2	40 - 140	30
Benzo(b)fluoranthene	ND	0.23	85	86	1.2	79	85	7.3	40 - 140	30
Benzo(ghi)perylene	ND	0.23	98	95	3.1	91	99	8.4	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	80	75	6.5	78	77	1.3	40 - 140	30
Chrysene	ND	0.23	88	82	7.1	79	85	7.3	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23	89	86	3.4	85	92	7.9	40 - 140	30
Fluoranthene	ND	0.23	85	86	1.2	80	82	2.5	40 - 140	30
Fluorene	ND	0.23	84	83	1.2	76	82	7.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23	96	90	6.5	89	95	6.5	40 - 140	30
Naphthalene	ND	0.23	79	78	1.3	68	68	0.0	40 - 140	30
Phenanthrene	ND	0.23	86	85	1.2	81	84	3.6	40 - 140	30
Pyrene	ND	0.23	84	85	1.2	81	81	0.0	30 - 130	30
% 2-Fluorobiphenyl	73	%	69	69	0.0	62	64	3.2	30 - 130	30
% Nitrobenzene-d5	66	%	80	80	0.0	69	64	7.5	30 - 130	30
% Terphenyl-d14	82	%	92	91	1.1	85	82	3.6	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 602458 (mg/Kg), QC Sample No: CJ82884 (CJ83473, CJ83476, CJ83477)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	114	122	6.8				70 - 130	30
1,1,1-Trichloroethane	ND	0.005	109	111	1.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	100	112	11.3				70 - 130	30
1,1,2-Trichloroethane	ND	0.005	97	104	7.0				70 - 130	30
1,1-Dichloroethane	ND	0.005	104	108	3.8				70 - 130	30
1,1-Dichloroethene	ND	0.005	103	111	7.5				70 - 130	30
1,1-Dichloropropene	ND	0.005	104	112	7.4				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	95	107	11.9				70 - 130	30
1,2,3-Trichloropropane	ND	0.005	96	106	9.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	95	106	10.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	96	104	8.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	117	133	12.8				70 - 130	30
1,2-Dibromoethane	ND	0.005	97	108	10.7				70 - 130	30
1,2-Dichlorobenzene	ND	0.005	93	100	7.3				70 - 130	30
1,2-Dichloroethane	ND	0.005	104	112	7.4				70 - 130	30
1,2-Dichloropropane	ND	0.005	100	106	5.8				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	96	104	8.0				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	94	100	6.2				70 - 130	30
1,3-Dichloropropane	ND	0.005	98	107	8.8				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	94	100	6.2				70 - 130	30
2,2-Dichloropropane	ND	0.005	93	96	3.2				70 - 130	30
2-Chlorotoluene	ND	0.005	98	105	6.9				70 - 130	30
2-Hexanone	ND	0.025	98	111	12.4				70 - 130	30
2-Isopropyltoluene	ND	0.005	96	102	6.1				70 - 130	30
4-Chlorotoluene	ND	0.005	97	105	7.9				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	101	115	13.0				70 - 130	30
Acetone	ND	0.01	100	116	14.8				70 - 130	30
Acrylonitrile	ND	0.005	98	115	16.0				70 - 130	30
Benzene	ND	0.001	100	105	4.9				70 - 130	30

QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Bromobenzene	ND	0.005	96	102	6.1				70 - 130	30
Bromochloromethane	ND	0.005	102	111	8.5				70 - 130	30
Bromodichloromethane	ND	0.005	116	128	9.8				70 - 130	30
Bromoform	ND	0.005	134	150	11.3				70 - 130	30
Bromomethane	ND	0.005	137	136	0.7				70 - 130	30
Carbon Disulfide	ND	0.005	100	106	5.8				70 - 130	30
Carbon tetrachloride	ND	0.005	122	127	4.0				70 - 130	30
Chlorobenzene	ND	0.005	96	101	5.1				70 - 130	30
Chloroethane	ND	0.005	137	139	1.4				70 - 130	30
Chloroform	ND	0.005	103	108	4.7				70 - 130	30
Chloromethane	ND	0.005	100	106	5.8				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	101	108	6.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	102	109	6.6				70 - 130	30
Dibromochloromethane	ND	0.003	128	136	6.1				70 - 130	30
Dibromomethane	ND	0.005	103	111	7.5				70 - 130	30
Dichlorodifluoromethane	ND	0.005	98	103	5.0				70 - 130	30
Ethylbenzene	ND	0.001	97	104	7.0				70 - 130	30
Hexachlorobutadiene	ND	0.005	84	97	14.4				70 - 130	30
Isopropylbenzene	ND	0.001	98	105	6.9				70 - 130	30
m&p-Xylene	ND	0.002	96	102	6.1				70 - 130	30
Methyl ethyl ketone	ND	0.005	99	114	14.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	102	112	9.3				70 - 130	30
Methylene chloride	ND	0.005	80	83	3.7				70 - 130	30
Naphthalene	ND	0.005	96	109	12.7				70 - 130	30
n-Butylbenzene	ND	0.001	99	110	10.5				70 - 130	30
n-Propylbenzene	ND	0.001	97	105	7.9				70 - 130	30
o-Xylene	ND	0.002	94	99	5.2				70 - 130	30
p-Isopropyltoluene	ND	0.001	96	105	9.0				70 - 130	30
sec-Butylbenzene	ND	0.001	97	106	8.9				70 - 130	30
Styrene	ND	0.005	89	95	6.5				70 - 130	30
tert-Butylbenzene	ND	0.001	96	104	8.0				70 - 130	30
Tetrachloroethene	ND	0.005	94	105	11.1				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	98	110	11.5				70 - 130	30
Toluene	ND	0.001	97	103	6.0				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	104	111	6.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	101	108	6.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	112	127	12.6				70 - 130	30
Trichloroethene	ND	0.005	97	103	6.0				70 - 130	30
Trichlorofluoromethane	ND	0.005	123	135	9.3				70 - 130	30
Trichlorotrifluoroethane	ND	0.005	89	101	12.6				70 - 130	30
Vinyl chloride	ND	0.005	104	110	5.6				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	102	%	100	101	1.0				70 - 130	30
% Dibromofluoromethane	98	%	100	100	0.0				70 - 130	30
% Toluene-d8	102	%	102	103	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 602611 (mg/Kg), QC Sample No: CJ83420 (CJ83474, CJ83475, CJ83478, CJ83479)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	108	107	0.9	101	97	4.0	70 - 130	30
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QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	0.005	114	116	1.7	112	108	3.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	115	105	9.1	99	98	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	106	100	5.8	96	94	2.1	70 - 130	30
1,1-Dichloroethane	ND	0.005	106	108	1.9	103	102	1.0	70 - 130	30
1,1-Dichloroethene	ND	0.005	110	114	3.6	106	102	3.8	70 - 130	30
1,1-Dichloropropene	ND	0.005	105	107	1.9	100	94	6.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	105	103	1.9	80	74	7.8	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	121	109	10.4	102	101	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	100	98	2.0	79	74	6.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	105	106	0.9	98	91	7.4	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	124	106	15.7	96	96	0.0	70 - 130	30
1,2-Dibromoethane	ND	0.005	108	103	4.7	97	94	3.1	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	103	101	2.0	92	86	6.7	70 - 130	30
1,2-Dichloroethane	ND	0.005	118	112	5.2	107	106	0.9	70 - 130	30
1,2-Dichloropropane	ND	0.005	101	99	2.0	95	93	2.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	106	108	1.9	100	93	7.3	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	100	98	2.0	89	83	7.0	70 - 130	30
1,3-Dichloropropane	ND	0.005	108	104	3.8	99	97	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	101	101	0.0	91	83	9.2	70 - 130	30
2,2-Dichloropropane	ND	0.005	111	114	2.7	106	102	3.8	70 - 130	30
2-Chlorotoluene	ND	0.005	104	105	1.0	97	90	7.5	70 - 130	30
2-Hexanone	ND	0.025	109	94	14.8	81	83	2.4	70 - 130	30
2-Isopropyltoluene	ND	0.005	104	106	1.9	99	90	9.5	70 - 130	30
4-Chlorotoluene	ND	0.005	104	106	1.9	95	90	5.4	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	120	101	17.2	94	92	2.2	70 - 130	30
Acetone	ND	0.01	120	104	14.3	98	99	1.0	70 - 130	30
Acrylonitrile	ND	0.005	110	100	9.5	89	90	1.1	70 - 130	30
Benzene	ND	0.001	101	101	0.0	96	92	4.3	70 - 130	30
Bromobenzene	ND	0.005	101	103	2.0	95	91	4.3	70 - 130	30
Bromochloromethane	ND	0.005	108	107	0.9	102	101	1.0	70 - 130	30
Bromodichloromethane	ND	0.005	112	110	1.8	104	102	1.9	70 - 130	30
Bromoform	ND	0.005	113	104	8.3	89	91	2.2	70 - 130	30
Bromomethane	ND	0.005	121	130	7.2	123	116	5.9	70 - 130	30
Carbon Disulfide	ND	0.005	104	105	1.0	96	93	3.2	70 - 130	30
Carbon tetrachloride	ND	0.005	118	120	1.7	111	106	4.6	70 - 130	30
Chlorobenzene	ND	0.005	101	102	1.0	95	90	5.4	70 - 130	30
Chloroethane	ND	0.005	125	131	4.7	124	122	1.6	70 - 130	30
Chloroform	ND	0.005	110	108	1.8	106	103	2.9	70 - 130	30
Chloromethane	ND	0.005	106	107	0.9	96	92	4.3	70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	104	105	1.0	102	99	3.0	70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	105	103	1.9	95	94	1.1	70 - 130	30
Dibromochloromethane	ND	0.003	114	109	4.5	101	99	2.0	70 - 130	30
Dibromomethane	ND	0.005	115	111	3.5	102	100	2.0	70 - 130	30
Dichlorodifluoromethane	ND	0.005	133	134	0.7	113	107	5.5	70 - 130	30
Ethylbenzene	ND	0.001	100	102	2.0	94	89	5.5	70 - 130	30
Hexachlorobutadiene	ND	0.005	95	99	4.1	76	67	12.6	70 - 130	30
Isopropylbenzene	ND	0.001	105	108	2.8	100	94	6.2	70 - 130	30
m&p-Xylene	ND	0.002	100	102	2.0	95	89	6.5	70 - 130	30
Methyl ethyl ketone	ND	0.005	115	100	14.0	90	90	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	119	109	8.8	108	107	0.9	70 - 130	30
Methylene chloride	ND	0.005	95	95	0.0	96	94	2.1	70 - 130	30
Naphthalene	ND	0.005	117	106	9.9	87	84	3.5	70 - 130	30
n-Butylbenzene	ND	0.001	110	113	2.7	98	88	10.8	70 - 130	30

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS	LCSD	LCS	MS	MSD	MS	%	%
			%	%	RPD	%	%	RPD	Rec	RPD
Limits										
n-Propylbenzene	ND	0.001	104	107	2.8	98	91	7.4	70 - 130	30
o-Xylene	ND	0.002	101	102	1.0	95	91	4.3	70 - 130	30
p-Isopropyltoluene	ND	0.001	106	109	2.8	98	89	9.6	70 - 130	30
sec-Butylbenzene	ND	0.001	106	110	3.7	99	90	9.5	70 - 130	30
Styrene	ND	0.005	86	85	1.2	78	74	5.3	70 - 130	30
tert-Butylbenzene	ND	0.001	105	108	2.8	101	93	8.2	70 - 130	30
Tetrachloroethene	ND	0.005	100	100	0.0	91	86	5.6	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	117	100	15.7	93	94	1.1	70 - 130	30
Toluene	ND	0.001	102	102	0.0	97	92	5.3	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	111	111	0.0	106	104	1.9	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	109	106	2.8	98	95	3.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	114	105	8.2	90	90	0.0	70 - 130	30
Trichloroethene	ND	0.005	101	100	1.0	94	90	4.3	70 - 130	30
Trichlorofluoromethane	ND	0.005	121	123	1.6	115	110	4.4	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	99	100	1.0	93	86	7.8	70 - 130	30
Vinyl chloride	ND	0.005	116	118	1.7	108	104	3.8	70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	102	100	2.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	102	%	102	101	1.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	92	%	96	96	0.0	97	97	0.0	70 - 130	30
% Toluene-d8	96	%	102	101	1.0	101	101	0.0	70 - 130	30

**Comment:**

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

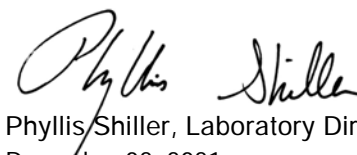
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director  
December 02, 2021

Thursday, December 02, 2021

Criteria: RI: Com, GB LEACH, RC

State: RI

## Sample Criteria Exceedances Report

**GCJ83473 - SAGE**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ83476	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Com)	1100	280	800	800	ug/Kg
CJ83476	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	400	400	ug/Kg
CJ83476	\$8100SMR	Benzo(b)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	\$8100SMR	Benzo(k)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	\$8100SMR	Chrysene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1200	280	400	400	ug/Kg
CJ83476	\$8100SMR	Benzo(a)anthracene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Com)	29.3	0.84	7	7	mg/Kg
CJ83476	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Res)	29.3	0.84	7	7	mg/Kg
CJ83476	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.84	0.33	0.4	0.4	mg/Kg
CJ83477	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Com)	2200	270	800	800	ug/Kg
CJ83477	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2200	270	400	400	ug/Kg
CJ83477	\$8100SMR	Benzo(b)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2500	270	900	900	ug/Kg
CJ83477	\$8100SMR	Benzo(ghi)perylene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1200	270	800	800	ug/Kg
CJ83477	\$8100SMR	Benzo(k)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2000	270	900	900	ug/Kg
CJ83477	\$8100SMR	Chrysene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2600	270	400	400	ug/Kg
CJ83477	\$8100SMR	Indeno(1,2,3-cd)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1500	270	900	900	ug/Kg
CJ83477	\$8100SMR	Benzo(a)anthracene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2400	270	900	900	ug/Kg
CJ83477	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Com)	8.01	0.79	7	7	mg/Kg
CJ83477	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Res)	8.01	0.79	7	7	mg/Kg
CJ83477	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.71	0.32	0.4	0.4	mg/Kg
CJ83478	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.51	0.29	0.4	0.4	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 02, 2021

SDG I.D.: GCJ83473

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **SVOA Narration**

**CHEM06 11/22/21-2:** CJ83473, CJ83476, CJ83477, CJ83478

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Continuing Calibration compounds did not meet recommended response factors: Acenaphthene 0.839 (0.9)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

### **VOA Narration**

**CHEM18 11/30/21-1:** CJ83474, CJ83475, CJ83478, CJ83479

The following Initial Calibration compounds did not meet RSD% criteria: Methylene chloride 21% (20%), Styrene 30% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM26 11/29/21-1:** CJ83473, CJ83476, CJ83477

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Bromoform 35% (20%), Carbon tetrachloride 21% (20%), Dibromochloromethane 24% (20%), Methylene chloride 33% (20%), trans-1,4-dichloro-2-butene 32% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.071 (0.1), Tetrachloroethene 0.179 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromoform 39%H (30%), Bromomethane 38%H (30%),

Chloroethane 38%H (30%), Dibromochloromethane 33%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



### CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant: IPK  Yes  No   
 ICE  Yes  No   
 Temp 17 °C Pg 1 of 1

**Data Delivery/Contact Options:**

Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer: SAGE ENVIRONMENTAL  
 Address: 172 ARMISTICE BLVD  
PAWTUCKET, RI 02860

Project: 53977  
 Report to: data@sage-enviro.com  
 Invoice to: \_\_\_\_\_  
 QUOTE # \_\_\_\_\_

Project P.O.: \_\_\_\_\_

**This section MUST be completed with Bottle Quantities.**

**Client Sample Information - Identification**  
 Sampler's Signature: [Signature] Date: 11/19/21

**Matrix Code:**  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X= (Other)

Analysis Request					VOCS	PAHs	PCBs	TPH	PAHS	MS/MSD*	GL Amber 8 oz. w/13PO4	Soil VOA Vials (1) methano (2) H2O	GL Soil container ( 8 ) oz	40 ml VOA Vial ( ) oz	GL Amber 1000ml ( ) HCl	PL As is ( ) 1250ml ( ) 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle with/wo	Bacteria Bottle as is
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	X	X	X	X	X		X	X								
83473	SE-101(0'-2')	S	11/19/21	9:00	X	X	X	X	X		X	X								
83474	SE-101(10'-15')			9:30	X	X	X													
83475	SE-102(10'-15')			10:30	X	X	X													
83476	SE-103(0'-2')			11:30	X	X	X	X	X											
83477	SE-104(0'-2')			12:30	X	X	X	X	X											
83478	SE-105(0'-2')			13:30	X	X	X	X	X											
83479	SE-105(10'-15')			14:00	X	X	X													

Reinquished by: [Signature] Accepted by: [Signature]  
 Date: 11-22-21 Time: 9:10  
11/22 1524

**Comments, Special Requirements or Regulations:**  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other

**RI**  
 (Residential) Direct Exposure  
 (Comm/Industrial) Direct Exposure  
 GA Leachability  
 GB Leachability  
 GA-GW Objectives  
 GB-GW Objectives

**CT**  
 RCP Cert  
 GW Protection  
 SW Protection  
 GA Mobility  
 GB Mobility  
 Residential DEC  
 I/C DEC  
 Other

**MA**  
 MCP Certification  
 GW-1  MWRA eSMART  
 GW-2  S-1 10% CALC  
 GW-3  
 S-1 GW-1  S-1 GW-2  S-1 GW-3  
 S-2 GW-1  S-2 GW-2  S-2 GW-3  
 S-3 GW-1  S-3 GW-2  S-3 GW-3  
 SW Protection

**Data Format**  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 Other  
**Data Package**  
 Tier II Checklist  
 Full Data Package\*  
 Phoenix Std Report  
 Other

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.  
 \* SURCHARGE APPLIES

State where samples were collected: RI

\* SURCHARGE APPLIES



New England Testing Laboratory, Inc.  
(401) 353-3420

## REPORT OF ANALYTICAL RESULTS

**NETLAB Work Order Number: 1K23025**  
**Client Project: S3977 - 1144 Eddy St, Providence, RI**

Report Date: 01-December-2021

Prepared for:

Cathy Racine  
SAGE Environmental  
172 Armistice Blvd  
Pawtucket, RI 02860

---

Richard Warila, Laboratory Director  
New England Testing Laboratory, Inc.  
59 Greenhill Street  
West Warwick, RI 02893  
rich.warila@newenglandtesting.com

**Samples Submitted :**

The samples listed below were submitted to New England Testing Laboratory on 11/23/21. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 1K23025. Custody records are included in this report.

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
1K23025-01	SE-101 (MW)	Water	11/22/2021	11/23/2021
1K23025-02	SE-102 (MW)	Water	11/22/2021	11/23/2021
1K23025-03	SE-105 (MW)	Water	11/22/2021	11/23/2021

## ***Request for Analysis***

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### **SE-101 (MW) (Lab Number: 1K23025-01)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-102 (MW) (Lab Number: 1K23025-02)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-105 (MW) (Lab Number: 1K23025-03)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

## ***Method References***

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA*

## Case Narrative

### Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

### Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

## Results: Volatile Organic Compounds

**Sample: SE-101 (MW)**

**Lab Number: 1K23025-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Chloroform</b>	<b>2</b>		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
<b>1,1-Dichloroethene</b>	<b>6</b>		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21



## Results: Volatile Organic Compounds (Continued)

**Sample: SE-101 (MW) (Continued)**

**Lab Number: 1K23025-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
Tetrachloroethene	ND		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Trichloroethene</b>	<b>9</b>		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
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Surrogate(s)	Recovery%		Limits			
<hr/>						
<i>4-Bromofluorobenzene</i>	<i>94.4%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>1,2-Dichloroethane-d4</i>	<i>99.0%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>Toluene-d8</i>	<i>102%</i>		<i>70-130</i>		11/24/21	11/24/21

## Results: Volatile Organic Compounds

**Sample: SE-102 (MW)**

**Lab Number: 1K23025-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
Chloroform	ND		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-102 (MW) (Continued)**

**Lab Number: 1K23025-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Tetrachloroethene</b>	<b>1</b>		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
Trichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
<hr/>						
Surrogate(s)	Recovery%		Limits			
<hr/>						
<i>4-Bromofluorobenzene</i>	<i>94.8%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>1,2-Dichloroethane-d4</i>	<i>98.0%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>Toluene-d8</i>	<i>102%</i>		<i>70-130</i>		11/24/21	11/24/21

## Results: Volatile Organic Compounds

**Sample: SE-105 (MW)**

**Lab Number: 1K23025-03 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
Chloroform	ND		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-105 (MW) (Continued)**

**Lab Number: 1K23025-03 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
Tetrachloroethene	ND		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Trichloroethene</b>	<b>4</b>		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>91.4%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>1,2-Dichloroethane-d4</i>	<i>98.9%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>Toluene-d8</i>	<i>101%</i>		<i>70-130</i>		11/24/21	11/24/21

## Quality Control

### Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap</b>										
<b>Blank (B1K1217-BLK1)</b>					Prepared & Analyzed: 11/24/21					
Acetone	ND		5	ug/l						
Benzene	ND		1	ug/l						
Bromobenzene	ND		1	ug/l						
Bromochloromethane	ND		1	ug/l						
Bromodichloromethane	ND		1	ug/l						
Bromoform	ND		1	ug/l						
Bromomethane	ND		1	ug/l						
2-Butanone	ND		5	ug/l						
tert-Butyl alcohol	ND		5	ug/l						
sec-Butylbenzene	ND		1	ug/l						
n-Butylbenzene	ND		1	ug/l						
tert-Butylbenzene	ND		1	ug/l						
Methyl t-butyl ether (MTBE)	ND		1	ug/l						
Carbon Disulfide	ND		1	ug/l						
Carbon Tetrachloride	ND		1	ug/l						
Chlorobenzene	ND		1	ug/l						
Chloroethane	ND		1	ug/l						
Chloroform	ND		1	ug/l						
Chloromethane	ND		1	ug/l						
4-Chlorotoluene	ND		1	ug/l						
2-Chlorotoluene	ND		1	ug/l						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l						
Dibromochloromethane	ND		1	ug/l						
1,2-Dibromoethane (EDB)	ND		1	ug/l						
Dibromomethane	ND		1	ug/l						
1,2-Dichlorobenzene	ND		1	ug/l						
1,3-Dichlorobenzene	ND		1	ug/l						
1,4-Dichlorobenzene	ND		1	ug/l						
1,1-Dichloroethane	ND		1	ug/l						
1,2-Dichloroethane	ND		1	ug/l						
trans-1,2-Dichloroethene	ND		1	ug/l						
cis-1,2-Dichloroethene	ND		1	ug/l						
1,1-Dichloroethene	ND		1	ug/l						
1,2-Dichloropropane	ND		1	ug/l						
2,2-Dichloropropane	ND		1	ug/l						
cis-1,3-Dichloropropene	ND		1	ug/l						
trans-1,3-Dichloropropene	ND		1	ug/l						
1,1-Dichloropropene	ND		1	ug/l						
1,3-Dichloropropene (cis + trans)	ND		2	ug/l						
Diethyl ether	ND		5	ug/l						
1,4-Dioxane	ND		500	ug/l						
Ethylbenzene	ND		1	ug/l						
Hexachlorobutadiene	ND		1	ug/l						
2-Hexanone	ND		5	ug/l						
Isopropylbenzene	ND		1	ug/l						
p-Isopropyltoluene	ND		1	ug/l						
Methylene Chloride	ND		1	ug/l						
4-Methyl-2-pentanone	ND		5	ug/l						
Naphthalene	ND		1	ug/l						
n-Propylbenzene	ND		1	ug/l						
Styrene	ND		1	ug/l						
1,1,1,2-Tetrachloroethane	ND		1	ug/l						
Tetrachloroethene	ND		1	ug/l						
Tetrahydrofuran	ND		5	ug/l						

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>										
<b>Blank (B1K1217-BLK1)</b>					Prepared & Analyzed: 11/24/21					
Toluene	ND		1	ug/l						
1,2,4-Trichlorobenzene	ND		1	ug/l						
1,2,3-Trichlorobenzene	ND		1	ug/l						
1,1,2-Trichloroethane	ND		1	ug/l						
1,1,1-Trichloroethane	ND		1	ug/l						
Trichloroethene	ND		1	ug/l						
1,2,3-Trichloropropane	ND		1	ug/l						
1,3,5-Trimethylbenzene	ND		1	ug/l						
1,2,4-Trimethylbenzene	ND		1	ug/l						
Vinyl Chloride	ND		1	ug/l						
o-Xylene	ND		1	ug/l						
m&p-Xylene	ND		2	ug/l						
Total xylenes	ND		1	ug/l						
1,1,2,2-Tetrachloroethane	ND		1	ug/l						
tert-Amyl methyl ether	ND		1	ug/l						
1,3-Dichloropropane	ND		1	ug/l						
Ethyl tert-butyl ether	ND		1	ug/l						
Diisopropyl ether	ND		1	ug/l						
Trichlorofluoromethane	ND		1	ug/l						
Dichlorodifluoromethane	ND		1	ug/l						
tert-Amyl Alcohol	ND		5	ug/l						
<i>Surrogate: 4-Bromofluorobenzene</i>			45.4	ug/l	50.0		90.8	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			47.1	ug/l	50.0		94.2	70-130		
<i>Surrogate: Toluene-d8</i>			50.6	ug/l	50.0		101	70-130		
<b>LCS (B1K1217-BS1)</b>					Prepared & Analyzed: 11/24/21					
Acetone	39			ug/l	50.0		77.2	60-140		
Benzene	51			ug/l	50.0		102	70-130		
Bromobenzene	52			ug/l	50.0		104	70-130		
Bromochloromethane	56			ug/l	50.0		112	70-130		
Bromodichloromethane	54			ug/l	50.0		108	70-130		
Bromoform	58			ug/l	50.0		115	70-130		
Bromomethane	65			ug/l	50.0		130	70-130		
2-Butanone	42			ug/l	50.0		84.4	60-140		
tert-Butyl alcohol	42			ug/l	50.0		83.9	70-130		
sec-Butylbenzene	50			ug/l	50.0		100	70-130		
n-Butylbenzene	50			ug/l	50.0		100	70-130		
tert-Butylbenzene	58			ug/l	50.0		116	70-130		
Methyl t-butyl ether (MTBE)	47			ug/l	50.0		94.4	70-130		
Carbon Disulfide	17			ug/l	50.0		34.1	50-150		
Carbon Tetrachloride	51			ug/l	50.0		102	70-130		
Chlorobenzene	55			ug/l	50.0		110	70-130		
Chloroethane	56			ug/l	50.0		113	70-130		
Chloroform	46			ug/l	50.0		92.8	70-130		
Chloromethane	60			ug/l	50.0		120	70-130		
4-Chlorotoluene	52			ug/l	50.0		105	70-130		
2-Chlorotoluene	52			ug/l	50.0		104	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	44			ug/l	50.0		87.9	70-130		
Dibromochloromethane	55			ug/l	50.0		110	70-130		
1,2-Dibromoethane (EDB)	56			ug/l	50.0		111	70-130		
Dibromomethane	55			ug/l	50.0		111	70-130		
1,2-Dichlorobenzene	51			ug/l	50.0		103	70-130		
1,3-Dichlorobenzene	54			ug/l	50.0		108	70-130		
1,4-Dichlorobenzene	51			ug/l	50.0		102	70-130		
1,1-Dichloroethane	43			ug/l	50.0		85.7	70-130		
1,2-Dichloroethane	47			ug/l	50.0		93.3	70-130		
trans-1,2-Dichloroethene	47			ug/l	50.0		93.6	70-130		



**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>					Prepared & Analyzed: 11/24/21					
<b>LCS (B1K1217-BS1)</b>										
cis-1,2-Dichloroethene	48			ug/l	50.0		95.1	70-130		
1,1-Dichloroethene	51			ug/l	50.0		103	70-130		
1,2-Dichloropropane	51			ug/l	50.0		103	70-130		
2,2-Dichloropropane	48			ug/l	50.0		97.0	70-130		
cis-1,3-Dichloropropene	53			ug/l	50.0		106	70-130		
trans-1,3-Dichloropropene	53			ug/l	50.0		107	70-130		
1,1-Dichloropropene	55			ug/l	50.0		109	70-130		
Diethyl ether	38			ug/l	50.0		76.7	70-130		
1,4-Dioxane	274			ug/l	250		109	50-150		
Ethylbenzene	51			ug/l	50.0		102	70-130		
Hexachlorobutadiene	46			ug/l	50.0		91.2	70-130		
2-Hexanone	50			ug/l	50.0		99.7	70-130		
Isopropylbenzene	56			ug/l	50.0		112	70-130		
p-Isopropyltoluene	56			ug/l	50.0		113	70-130		
Methylene Chloride	52			ug/l	50.0		105	70-130		
4-Methyl-2-pentanone	52			ug/l	50.0		104	70-130		
Naphthalene	38			ug/l	50.0		75.8	70-130		
n-Propylbenzene	54			ug/l	50.0		108	70-130		
Styrene	55			ug/l	50.0		110	70-130		
1,1,1,2-Tetrachloroethane	52			ug/l	50.0		105	70-130		
Tetrachloroethene	55			ug/l	50.0		110	70-130		
Tetrahydrofuran	52			ug/l	50.0		105	50-150		
Toluene	49			ug/l	50.0		97.6	70-130		
1,2,4-Trichlorobenzene	46			ug/l	50.0		92.6	70-130		
1,2,3-Trichlorobenzene	36			ug/l	50.0		72.6	70-130		
1,1,2-Trichloroethane	53			ug/l	50.0		106	70-130		
1,1,1-Trichloroethane	50			ug/l	50.0		100	70-130		
Trichloroethene	47			ug/l	50.0		94.7	70-130		
1,2,3-Trichloropropane	47			ug/l	50.0		94.8	70-130		
1,3,5-Trimethylbenzene	53			ug/l	50.0		106	70-130		
1,2,4-Trimethylbenzene	54			ug/l	50.0		107	70-130		
Vinyl Chloride	65			ug/l	50.0		129	70-130		
o-Xylene	55			ug/l	50.0		110	70-130		
m&p-Xylene	110			ug/l	100		110	70-130		
1,1,2,2-Tetrachloroethane	48			ug/l	50.0		96.9	70-130		
tert-Amyl methyl ether	59			ug/l	50.0		118	70-130		
1,3-Dichloropropane	52			ug/l	50.0		104	70-130		
Ethyl tert-butyl ether	50			ug/l	50.0		100	70-130		
Trichlorofluoromethane	64			ug/l	50.0		128	70-130		
Dichlorodifluoromethane	87			ug/l	50.0		174	70-130		
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Surrogate: 4-Bromofluorobenzene			49.5	ug/l	50.0		99.1	70-130		
Surrogate: 1,2-Dichloroethane-d4			49.8	ug/l	50.0		99.6	70-130		
Surrogate: Toluene-d8			50.2	ug/l	50.0		100	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>					Prepared & Analyzed: 11/24/21					
<b>LCS Dup (B1K1217-BSD1)</b>										
Acetone	36			ug/l	50.0		71.2	60-140	8.08	20
Benzene	47			ug/l	50.0		94.9	70-130	7.52	20
Bromobenzene	51			ug/l	50.0		102	70-130	1.15	20
Bromochloromethane	50			ug/l	50.0		99.7	70-130	11.7	20
Bromodichloromethane	50			ug/l	50.0		100	70-130	7.09	20
Bromoform	58			ug/l	50.0		116	70-130	0.691	20
Bromomethane	71			ug/l	50.0		142	70-130	9.01	20
2-Butanone	40			ug/l	50.0		80.4	60-140	4.93	20
tert-Butyl alcohol	36			ug/l	50.0		71.7	70-130	15.7	20
sec-Butylbenzene	48			ug/l	50.0		96.9	70-130	3.21	20
n-Butylbenzene	50			ug/l	50.0		99.6	70-130	0.601	20
tert-Butylbenzene	55			ug/l	50.0		110	70-130	5.17	20
Methyl t-butyl ether (MTBE)	47			ug/l	50.0		93.0	70-130	1.45	20
Carbon Disulfide	16			ug/l	50.0		31.1	50-150	9.33	20
Carbon Tetrachloride	48			ug/l	50.0		96.5	70-130	5.95	20
Chlorobenzene	55			ug/l	50.0		110	70-130	0.509	20
Chloroethane	51			ug/l	50.0		102	70-130	10.1	20
Chloroform	46			ug/l	50.0		91.0	70-130	2.00	20
Chloromethane	55			ug/l	50.0		110	70-130	8.90	20
4-Chlorotoluene	51			ug/l	50.0		102	70-130	2.95	20
2-Chlorotoluene	49			ug/l	50.0		98.3	70-130	6.06	20
1,2-Dibromo-3-chloropropane (DBCP)	47			ug/l	50.0		94.0	70-130	6.79	20
Dibromochloromethane	56			ug/l	50.0		111	70-130	0.958	20
1,2-Dibromoethane (EDB)	54			ug/l	50.0		108	70-130	2.66	20
Dibromomethane	52			ug/l	50.0		104	70-130	5.80	20
1,2-Dichlorobenzene	52			ug/l	50.0		104	70-130	1.03	20
1,3-Dichlorobenzene	53			ug/l	50.0		105	70-130	2.79	20
1,4-Dichlorobenzene	50			ug/l	50.0		101	70-130	1.03	20
1,1-Dichloroethane	41			ug/l	50.0		81.3	70-130	5.34	20
1,2-Dichloroethane	45			ug/l	50.0		89.5	70-130	4.18	20
trans-1,2-Dichloroethene	44			ug/l	50.0		88.6	70-130	5.51	20
cis-1,2-Dichloroethene	47			ug/l	50.0		94.6	70-130	0.506	20
1,1-Dichloroethene	49			ug/l	50.0		97.9	70-130	4.83	20
1,2-Dichloropropane	49			ug/l	50.0		98.4	70-130	4.20	20
2,2-Dichloropropane	46			ug/l	50.0		91.4	70-130	5.92	20
cis-1,3-Dichloropropene	50			ug/l	50.0		100	70-130	5.20	20
trans-1,3-Dichloropropene	53			ug/l	50.0		107	70-130	0.0561	20
1,1-Dichloropropene	52			ug/l	50.0		103	70-130	5.33	20
Diethyl ether	42			ug/l	50.0		83.4	70-130	8.27	20
1,4-Dioxane	278			ug/l	250		111	50-150	1.40	20
Ethylbenzene	50			ug/l	50.0		99.2	70-130	2.43	20
Hexachlorobutadiene	46			ug/l	50.0		92.0	70-130	0.874	20
2-Hexanone	46			ug/l	50.0		91.9	70-130	8.10	20
Isopropylbenzene	54			ug/l	50.0		108	70-130	3.23	20
p-Isopropyltoluene	55			ug/l	50.0		110	70-130	2.55	20
Methylene Chloride	49			ug/l	50.0		97.3	70-130	7.21	20
4-Methyl-2-pentanone	51			ug/l	50.0		102	70-130	2.64	20
Naphthalene	41			ug/l	50.0		81.9	70-130	7.78	20
n-Propylbenzene	52			ug/l	50.0		103	70-130	4.43	20
Styrene	53			ug/l	50.0		106	70-130	3.24	20
1,1,1,2-Tetrachloroethane	54			ug/l	50.0		109	70-130	3.96	20
Tetrachloroethene	53			ug/l	50.0		107	70-130	2.89	20
Tetrahydrofuran	51			ug/l	50.0		103	50-150	1.64	20
Toluene	46			ug/l	50.0		92.1	70-130	5.76	20
1,2,4-Trichlorobenzene	48			ug/l	50.0		96.5	70-130	4.06	20
1,2,3-Trichlorobenzene	37			ug/l	50.0		74.2	70-130	2.15	20
1,1,2-Trichloroethane	50			ug/l	50.0		99.6	70-130	6.38	20

**Quality Control  
(Continued)**

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B1K1217-BSD1)</b>					Prepared & Analyzed: 11/24/21					
1,1,1-Trichloroethane	49			ug/l	50.0		98.5	70-130	1.73	20
Trichloroethene	47			ug/l	50.0		93.6	70-130	1.21	20
1,2,3-Trichloropropane	48			ug/l	50.0		97.0	70-130	2.25	20
1,3,5-Trimethylbenzene	53			ug/l	50.0		105	70-130	0.643	20
1,2,4-Trimethylbenzene	52			ug/l	50.0		105	70-130	2.43	20
Vinyl Chloride	60			ug/l	50.0		121	70-130	6.73	20
o-Xylene	54			ug/l	50.0		109	70-130	1.42	20
m&p-Xylene	107			ug/l	100		107	70-130	2.52	20
1,1,1,2-Tetrachloroethane	48			ug/l	50.0		96.3	70-130	0.621	20
tert-Amyl methyl ether	58			ug/l	50.0		116	70-130	1.81	20
1,3-Dichloropropane	50			ug/l	50.0		100	70-130	3.35	20
Ethyl tert-butyl ether	46			ug/l	50.0		91.3	70-130	9.22	20
Trichlorofluoromethane	60			ug/l	50.0		120	70-130	6.53	20
Dichlorodifluoromethane	78			ug/l	50.0		157	70-130	10.6	20
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Surrogate: 4-Bromofluorobenzene			47.6	ug/l	50.0		95.2	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.9	ug/l	50.0		108	70-130		
Surrogate: Toluene-d8			48.1	ug/l	50.0		96.3	70-130		

## Notes and Definitions

<b>Item</b>	<b>Definition</b>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

NEW ENGLAND TESTING LABORATORY, INC.  
 59 Greenhill Street  
 West Warwick, RI 02893  
 1-888-863-8522



1 K 2 3025 >

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		A S O C I E T Y	S O I L	O T H E R	NO. OF CONTAINERS	PRESERVATIVE	TESTS**				REMARKS
CLIENT		REPORT TO	INVOICE TO						VOC's				
DATE	TIME	COM P	GRAB	SAMPLE I.D.									
53977	1144 Eddy St, Providence RI												
SAGE Environmental		SAGE @ sage-enviro.com	SAGE										
11/22	14:58		X	SE-101 (MW)	X		3***	HCl	X				
	15:05			SE-102 (MW)	↓		↓***	↓	↓				
	15:10		↓	SE-105 (MW)	↓		↓***	↓	↓				
Sampled by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Laboratory Remarks:		Special Instructions: List Specific Detection Limit Requirements:  Turnaround (Business Days)					
Michael V Podany		16:25   11/22/21				Temp. received: 4 Cooled <input checked="" type="checkbox"/>							
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time								
Catherine Reina		11/23/21 11:11	[Signature]		11/23   1111								
Relinquished by: (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time								
[Signature]		11/23   1530	[Signature]		11/23   1530								

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\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

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Wednesday, December 01, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCJ85468  
Sample ID#s: CJ85468 - CJ85471

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 01, 2021

SDG I.D.: GCJ85468

Project ID: S3977

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Client Id	Lab Id	Matrix
SE-SG-103	CJ85468	AIR
SE-SG-105	CJ85469	AIR
SE-SG-101	CJ85470	AIR
SE-SG-102	CJ85471	AIR





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 01, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 28607

Custody Information

Collected by: MVP  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 11/22/21 14:45  
 11/24/21 14:15

Project ID: S3977  
 Client ID: SE-SG-103

Laboratory Data

SDG ID: GCJ85468  
 Phoenix ID: CJ85468

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/24/21	KCA	5
1,1,1-Trichloroethane	58.2	2.50	317	13.6	11/24/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/24/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/24/21	KCA	5
1,1-Dichloroethane	48.8	2.50	197	10.1	11/24/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/24/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/24/21	KCA	5
1,2,4-Trimethylbenzene	42.7	2.50	210	12.3	11/24/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/24/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/24/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/24/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/24/21	KCA	5
1,3,5-Trimethylbenzene	11.6	2.50	57.0	12.3	11/24/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/24/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/24/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/24/21	KCA	5
4-Ethyltoluene	35.8	2.50	176	12.3	11/24/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/24/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/24/21	KCA	5
Acetone	33.8	2.50	80.2	5.93	11/24/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/24/21	KCA	5
Benzene	7.03	2.50	22.4	7.98	11/24/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/24/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/24/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/24/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/24/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/24/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/24/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/24/21	KCA	5
Chloroethane	4.40	2.50	11.6	6.59	11/24/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/24/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/24/21	KCA	5
Cis-1,2-Dichloroethene	58.0	2.50	230	9.9	11/24/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/24/21	KCA	5
Cyclohexane	20.8	2.50	71.6	8.60	11/24/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/24/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/24/21	KCA	5
Ethanol	224	E 2.50	422	4.71	11/24/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/24/21	KCA	5
Ethylbenzene	34.9	2.50	151	10.8	11/24/21	KCA	5
Heptane	25.9	2.50	106	10.2	11/24/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/24/21	KCA	5
Hexane	21.7	2.50	76.4	8.81	11/24/21	KCA	5
Isopropylalcohol	ND	2.50	ND	6.14	11/24/21	KCA	5
Isopropylbenzene	2.95	2.50	14.5	12.3	11/24/21	KCA	5
m,p-Xylene	123	5.00	534	21.7	11/24/21	KCA	5
Methyl Ethyl Ketone	30.7	2.50	90.5	7.37	11/24/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/24/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/24/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/24/21	KCA	5
o-Xylene	42.4	2.50	184	10.8	11/24/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/24/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/24/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/24/21	KCA	5
Tetrachloroethene	3.49	1.00	23.7	6.78	11/24/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/24/21	KCA	5
Toluene	152	2.50	572	9.42	11/24/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/24/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/24/21	KCA	5
Trichloroethene	78.8	1.00	423	5.37	11/24/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/24/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/24/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/24/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/24/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	111	%	111	%	11/24/21	KCA	5
% IS-Bromochloromethane (5x)	108	%	108	%	11/24/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	118	%	118	%	11/24/21	KCA	5

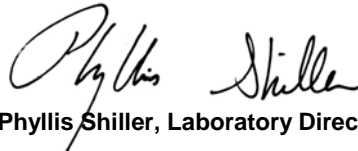
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 12867

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date Time  
11/22/21 14:43  
11/24/21 14:15

Project ID: S3977  
Client ID: SE-SG-105

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85469

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	28.2	2.50	139	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	7.70	2.50	37.8	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	24.1	2.50	118	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	19.7	2.50	46.8	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	5.21	2.50	16.6	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	14.0	2.50	48.2	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	141	2.50	266	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	26.8	2.50	116	10.8	11/25/21	KCA	5
Heptane	19.5	2.50	79.9	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	15.4	2.50	54.2	8.81	11/25/21	KCA	5
Isopropylalcohol	6.86	2.50	16.9	6.14	11/25/21	KCA	5
Isopropylbenzene	ND	2.50	ND	12.3	11/25/21	KCA	5
m,p-Xylene	94.5	5.00	410	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	18.2	2.50	53.6	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	31.5	2.50	137	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	ND	1.00	ND	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	121	2.50	456	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	ND	1.00	ND	5.37	11/25/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	121	%	121	%	11/25/21	KCA	5

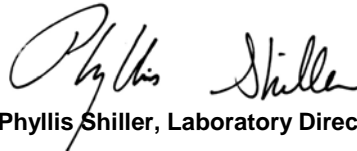
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

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**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 19786  
Project ID: S3977  
Client ID: SE-SG-101

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date Time  
11/22/21 14:52  
11/24/21 14:15

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85470

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	149	2.50	812	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	5.16	2.50	20.9	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	24.5	2.50	120	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	7.32	2.50	36.0	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	23.9	2.50	117	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	23.8	2.50	56.5	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	6.37	2.50	20.3	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	19.2	2.50	76.1	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	16.1	2.50	55.4	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	170	2.50	320	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	31.1	2.50	135	10.8	11/25/21	KCA	5
Heptane	22.0	2.50	90.1	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	17.6	2.50	62.0	8.81	11/25/21	KCA	5
Isopropylalcohol	5.59	2.50	13.7	6.14	11/25/21	KCA	5
Isopropylbenzene	ND	2.50	ND	12.3	11/25/21	KCA	5
m,p-Xylene	110	5.00	477	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	24.0	2.50	70.7	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	35.8	2.50	155	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	94.0	1.00	637	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	143	2.50	539	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	860	15.0	4620	80.6	11/29/21	KCA	75
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	101	%	101	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	112	%	112	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	112	%	112	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	118	%	118	%	11/25/21	KCA	5
% Bromofluorobenzene (75x)	103	%	103	%	11/29/21	KCA	75
% IS-1,4-Difluorobenzene (75x)	91	%	91	%	11/29/21	KCA	75
% IS-Bromochloromethane (75x)	94	%	94	%	11/29/21	KCA	75
% IS-Chlorobenzene-d5 (75x)	93	%	93	%	11/29/21	KCA	75



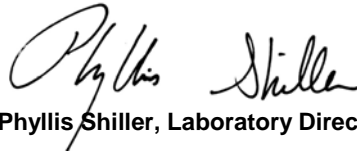
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 28564

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date Time  
11/22/21 14:49  
11/24/21 14:15

Project ID: S3977  
Client ID: SE-SG-102

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85471

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	26.9	2.50	147	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	28.7	2.50	141	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	8.54	2.50	42.0	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	26.6	2.50	131	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	29.6	2.50	70.3	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	6.49	2.50	20.7	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	3.13	2.50	12.4	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	18.6	2.50	64.0	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	194	2.50	365	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	33.8	2.50	147	10.8	11/25/21	KCA	5
Heptane	25.3	2.50	104	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	20.3	2.50	71.5	8.81	11/25/21	KCA	5
Isopropylalcohol	6.77	2.50	16.6	6.14	11/25/21	KCA	5
Isopropylbenzene	2.56	2.50	12.6	12.3	11/25/21	KCA	5
m,p-Xylene	117	5.00	508	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	28.5	2.50	84.0	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	39.7	2.50	172	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	20.8	1.00	141	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	153	2.50	576	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	178	1.00	956	5.37	11/25/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	117	%	117	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	123	%	123	%	11/25/21	KCA	5

Project ID: S3977  
Client ID: SE-SG-102

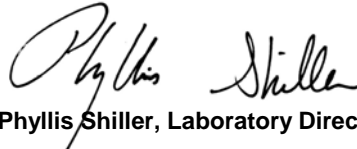
Phoenix I.D.: CJ85471

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

## Canister Sampling Information

December 01, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Location Code: SAGE

SDG I.D.: GCJ85468

Project ID: S3977

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SE-SG-103	CJ85468	28607	6.0L	3510	11/16/21	-30	-6	173	174	0.6	-29	-8	11/22/21 14:17	11/22/21 14:45
SE-SG-105	CJ85469	12867	6.0L	5622	11/16/21	-30	-2	173	173	0.0	-28	-1	11/22/21 14:10	11/22/21 14:43
SE-SG-101	CJ85470	19786	6.0L	4493	11/16/21	-30	-7	173	161	7.2	-28	-7	11/22/21 14:24	11/22/21 14:52
SE-SG-102	CJ85471	28564	6.0L	4493	11/16/21	-30	-6	173	186	7.2	-27	-8	11/22/21 14:21	11/22/21 14:49



Environmental Laboratories, Inc.  
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 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 01, 2021

## QA/QC Data

SDG I.D.: GCJ85468

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 602426 (ppbv), QC Sample No: CJ82368 (CJ85470 (75X) )												
<u>Volatiles</u>												
Trichloroethene	ND	0.200	ND	1.07	103	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103	%	103	%	106	105	108	105	108	NC	70 - 130	25
% IS-1,4-Difluorobenzene	91	%	91	%	102	102	88	102	88	NC	60 - 140	25
% IS-Bromochloromethane	92	%	92	%	103	104	90	104	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	87	%	87	%	111	101	88	101	88	NC	60 - 140	25
QA/QC Batch 602260 (ppbv), QC Sample No: CJ85466 (CJ85468 (5X) , CJ85469 (5X) , CJ85470 (5X) , CJ85471 (5X) )												
<u>Volatiles</u>												
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	101	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	122	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	118	2.04	2.07	0.416	0.421	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	118	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	101	0.07	0.07	0.017	0.017	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	114	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	97	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	113	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	115	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	84	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	112	1.60	1.73	0.326	0.352	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	113	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	103	1.16	1.15	0.284	0.280	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	80	27.5	27.5	11.6	11.6	0.0	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	91	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	104	2.53	2.51	0.793	0.787	0.8	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	97	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	107	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	119	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	103	0.54	0.53	0.086	0.084	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	107	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	99	ND	ND	ND	ND	NC	70 - 130	25

## QA/QC Data

SDG I.D.: GCJ85468

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	0.250	ND	0.52	101	0.67	0.66	0.323	0.322	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	99	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	109	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	99	5.09	5.30	1.48	1.54	4.0	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	108	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	105	1.99	2.07	0.402	0.418	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	86	65.0 E	68.2	34.5 E	36.2	4.8	70 - 130	25
Ethyl acetate	ND	0.250	ND	0.90	76	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	109	1.22	1.24	0.280	0.286	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	105	2.40	2.33	0.587	0.568	NC	70 - 130	25
Hexachlorobutadiene	ND	0.005	ND	0.05	109	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	95	10.6	11.1	3.01	3.14	4.2	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	109	ND	ND	ND	ND	NC	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	110	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	111	4.64	4.64	1.07	1.07	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	98	ND	2.77	ND	0.941	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	100	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	85	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.250	ND	1.37	115	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	116	1.40	1.42	0.323	0.328	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	96	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	113	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	113	0.45	0.43	0.105	0.101	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	109	1.00	0.96	0.148	0.141	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	94	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	109	12.2	12.1	3.23	3.22	0.3	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	98	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	103	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	105	0.18	0.18	0.034	0.033	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	105	2.99	3.10	0.532	0.552	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	102	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	101	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	100	%	100	%	102	98	100	98	100	NC	70 - 130	25
% IS-1,4-Difluorobenzene	105	%	105	%	105	101	105	101	105	NC	60 - 140	25
% IS-Bromochloromethane	105	%	105	%	105	101	104	101	104	NC	60 - 140	25
% IS-Chlorobenzene-d5	105	%	105	%	106	106	106	106	106	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

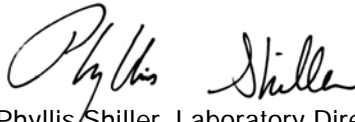
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
Phyllis Shiller, Laboratory Director  
December 01, 2021

Wednesday, December 01, 2021

Criteria: None

State: RI

# Sample Criteria Exceedances Report

GCJ85468 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 01, 2021

SDG I.D.: GCJ85468

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **AIRSIM**

**CHEM24 11/24/21-1:** CJ85468, CJ85469, CJ85470, CJ85471

The following Continuing Calibration compounds did not meet % deviation criteria: Isopropylalcohol 491%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Isopropylalcohol 491%H (30%)



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD  
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page of

Data Delivery:

Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Phone #: \_\_\_\_\_

Report to: <b>Amy Mulhern</b>	Project Name: <b>53977</b>	Data Format: (Circle) Equis Excel Other: _____
Customer: <b>Sage ENV.</b>	Invoice to: <b>Sage @ sage-env.com</b>	Requested Deliverable: RCP ASP CAT B
Address: <b>172 Armitage Blvd, Pawtucket RI</b>		MCP NJ Deliverables
	Sampled by: <b>MVP</b>	Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
85468	SE-SG-103	28607	6.0	-30	-6	3510	173	14:17	14:45	11/22	29	8					
85469	SE-SG-105	12867	↓	↓	-2	5622	↓	14:10	14:47	11/22	26	1					
		23349	↓	↓		5660	↓										
85470	SE-SG-101	19786	↓	↓	-7	4495	↓	14:24	14:52	11/22	28	7					
85471	SE-SG-102	28564	↓	↓	-6	4493	↓	14:21	14:49	11/22	27	8					

Relinquished by:	Accepted by:	Date: <b>11/24/21</b>	Time: <b>12:30</b>	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.
		Date: <b>11/24</b>	Time: <b>1415</b>	

State Where Samples Collected: <b>RI</b>	Turnaround Time: 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input type="checkbox"/>	Requested Criteria: (Please Circle) CT: TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	MA: <input type="checkbox"/> Indoor Air Residential <input type="checkbox"/> Indoor Air Ind/Commercial <input type="checkbox"/> Soil Gas Residential <input type="checkbox"/> Indoor Air Ind/Commercial	NJ: <input type="checkbox"/> Indoor Air Residential <input type="checkbox"/> Indoor Air Ind/Commercial <input type="checkbox"/> Soil Gas Residential <input type="checkbox"/> Indoor Air Ind/Commercial	NY: <input type="checkbox"/> Vapor Intrusion	PA: <input type="checkbox"/> Indoor Air Residential <input type="checkbox"/> Non-residential	VT: <input type="checkbox"/> Indoor Air Residential <input type="checkbox"/> Industrial Sub-slab Residential <input type="checkbox"/> Industrial
SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: <b>5(6L) 30 min</b>							



Tuesday, December 28, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK04448  
Sample ID#s: CK04448 - CK04451

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 28, 2021

SDG I.D.: GCK04448

Project ID: S3977

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Client Id	Lab Id	Matrix
SE-IA-102	CK04448	AIR
SE-IA-103	CK04449	AIR
SE-IA-101	CK04450	AIR
SE-AA-101	CK04451	AIR



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 28, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 355  
Project ID: S3977  
Client ID: SE-IA-102

## Custody Information

Collected by: JHB  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/20/21 8:32  
12/22/21 13:17

## Laboratory Data

SDG ID: GCK04448  
Phoenix ID: CK04448

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles TO15</b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.017	0.010	0.07	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	3.44	0.375	8.17	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.252	0.100	0.80	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

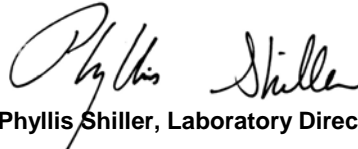
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	0.025	0.010	0.17	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.081	0.043	0.51	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	0.250	0.100	1.22	0.49	12/22/21	KCA	0.5
Chloromethane	0.584	0.250	1.21	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	0.250	0.100	0.99	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.494	0.250	2.44	1.24	12/22/21	KCA	0.5
Ethanol	4.54	0.375	8.55	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	0.241	0.225	0.85	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.697	0.375	1.71	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	0.227	0.225	0.67	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	0.093	0.050	0.49	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	0.997	0.050	6.76	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.461	0.250	1.74	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	1.55	0.025	8.32	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	0.054	0.050	0.14	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	99	%	99	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	90	%	90	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	93	%	93	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	87	%	87	%	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 28, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 16011  
 Project ID: S3977  
 Client ID: SE-IA-103

Custody Information

Collected by: JHB  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/20/21 8:36  
 12/22/21 13:17

Laboratory Data

SDG ID: GCK04448  
 Phoenix ID: CK04449

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	3.21	0.375	7.62	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.257	0.100	0.82	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5



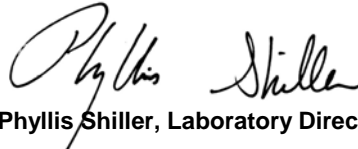
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.073	0.043	0.46	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	ND	0.100	ND	0.49	12/22/21	KCA	0.5
Chloromethane	0.515	0.250	1.06	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.430	0.250	2.13	1.24	12/22/21	KCA	0.5
Ethanol	4.26	0.375	8.02	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.639	0.375	1.57	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	0.054	0.050	0.28	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	0.117	0.050	0.79	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.369	0.250	1.39	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	0.096	0.025	0.52	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	102	%	102	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	98	%	98	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	101	%	101	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	91	%	91	%	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 28, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 28565  
Project ID: S3977  
Client ID: SE-IA-101

## Custody Information

Collected by: JHB  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/20/21 8:26  
12/22/21 13:17

## Laboratory Data

SDG ID: GCK04448  
Phoenix ID: CK04450

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles TO15</b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	0.355	0.250	1.94	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	2.69	0.375	6.39	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.248	0.100	0.79	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	0.032	0.010	0.21	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.075	0.043	0.47	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	0.343	0.100	1.67	0.49	12/22/21	KCA	0.5
Chloromethane	0.530	0.250	1.09	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	0.286	0.100	1.13	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.431	0.250	2.13	1.24	12/22/21	KCA	0.5
Ethanol	3.59	0.375	6.76	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.515	0.375	1.27	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	ND	0.050	ND	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	1.67	0.050	11.3	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.436	0.250	1.64	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	2.63	0.025	14.1	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	0.070	0.050	0.18	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	101	%	101	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	97	%	97	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	97	%	97	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	90	%	90	%	12/22/21	KCA	0.5

Project ID: S3977  
Client ID: SE-IA-101

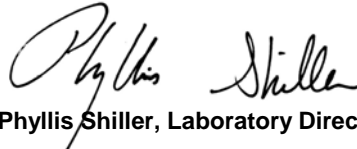
Phoenix I.D.: CK04450

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 28, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 28610  
 Project ID: S3977  
 Client ID: SE-AA-101

Custody Information

Collected by: JHB  
 Received by: CP  
 Analyzed by: see "By" below

Date            Time  
 12/20/21        8:40  
 12/22/21        13:17

Laboratory Data

SDG ID: GCK04448  
 Phoenix ID: CK04451

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	1.51	0.375	3.58	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.231	0.100	0.74	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.073	0.043	0.46	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	ND	0.100	ND	0.49	12/22/21	KCA	0.5
Chloromethane	0.535	0.250	1.10	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.438	0.250	2.16	1.24	12/22/21	KCA	0.5
Ethanol	2.47	0.375	4.65	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	ND	0.375	ND	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	ND	0.050	ND	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.332	0.250	1.25	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	98	%	98	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	98	%	98	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	89	%	89	%	12/22/21	KCA	0.5

Project ID: S3977  
Client ID: SE-AA-101

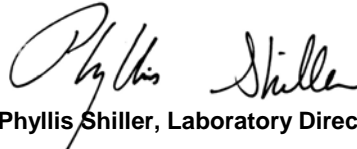
Phoenix I.D.: CK04451

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 28, 2021

## QA/QC Data

SDG I.D.: GCK04448

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 605824 (ppbv), QC Sample No: CK04340 (CK04448 (0.5X) , CK04449 (0.5X) , CK04450 (0.5X) , CK04451 (0.5X) )												
<b>Volatiles</b>												
1,1,1,2-Tetrachloroethane	ND	0.038	ND	0.26	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.07	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.010	ND	0.04	94	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	68	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.010	ND	0.08	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	104	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	117	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	118	1.23	1.26	0.205	0.209	1.9	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	93	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	107	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	106	1.68	1.66	0.307	0.303	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	103	935	914	394	385	2.3	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	99	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	105	1.34	1.32	0.420	0.412	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	113	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	103	0.57	0.53	0.085	0.079	7.3	70 - 130	25
Bromoform	ND	0.075	ND	0.77	97	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	103	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	106	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	108	0.64	0.60	0.101	0.096	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	98	3.39	3.33	0.694	0.682	1.7	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	110	1.57	1.53	0.761	0.743	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	101	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	105	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	100	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	108	2.10	2.06	0.424	0.416	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	83	588 E	571	312 E	303	2.9	70 - 130	25

QA/QC Data

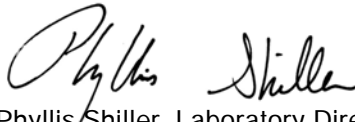
SDG I.D.: GCK04448

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.250	ND	0.90	133	6.34	6.41	1.76	1.78	1.1	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	98	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	101	1.95	1.91	0.475	0.466	NC	70 - 130	25
Hexachlorobutadiene	ND	0.010	ND	0.11	65	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	106	1.62	1.61	0.460	0.457	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	107	312 E	297	127 E	121	4.8	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	101	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	102	2.52	2.56	0.581	0.591	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	103	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	102	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	94	ND	ND	ND	ND	NC	70 - 130	25
Naphthalene	ND	0.050	ND	0.26	65	1.07	1.09	0.204	0.209	NC	70 - 150	25
n-Butylbenzene	ND	0.250	ND	1.37	110	1.95	2.00	0.355	0.365	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	97	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	105	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	103	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	100	0.87	0.83	0.205	0.195	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	101	0.92	1.13	0.312	0.384	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	102	3.69	3.72	0.981	0.988	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	105	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	92	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	103	2.47	2.50	0.459	0.465	1.3	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	103	4.65	4.63	0.828	0.825	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	104	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.010	ND	0.03	111	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	93	%	93	%	96	97	98	97	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	103	%	103	%	100	98	102	98	102	NC	60 - 140	25
% IS-Bromochloromethane	106	%	106	%	103	101	105	101	105	NC	60 - 140	25
% IS-Chlorobenzene-d5	101	%	101	%	108	94	96	94	96	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 December 28, 2021

Tuesday, December 28, 2021

Criteria: MA: Indoor Res

State: MA

## Sample Criteria Exceedances Report

GCK04448 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK04448	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04448	\$AIRMA_TO15	Bromodichloromethane	MA / Vapor Intrusion / Residential	0.025	0.010	0.02	0.02	ppbv
CK04448	\$AIRMA_TO15	Cis-1,2-Dichloroethene	MA / Vapor Intrusion / Residential	0.250	0.100	0.2	0.2	ppbv
CK04448	\$AIRMA_TO15	Tetrachloroethene	MA / Vapor Intrusion / Residential	0.997	0.050	0.21	0.21	ppbv
CK04448	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	1.55	0.025	0.075	0.075	ppbv
CK04448	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04449	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	0.096	0.025	0.075	0.075	ppbv
CK04449	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04449	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04450	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04450	\$AIRMA_TO15	Bromodichloromethane	MA / Vapor Intrusion / Residential	0.032	0.010	0.02	0.02	ppbv
CK04450	\$AIRMA_TO15	Cis-1,2-Dichloroethene	MA / Vapor Intrusion / Residential	0.286	0.100	0.2	0.2	ppbv
CK04450	\$AIRMA_TO15	Tetrachloroethene	MA / Vapor Intrusion / Residential	1.67	0.050	0.21	0.21	ppbv
CK04450	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	2.63	0.025	0.075	0.075	ppbv
CK04450	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04451	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04451	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 28, 2021

SDG I.D.: GCK04448

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 355  
Certification Date: 12/15/21 2:07 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_21.D\1214\_21-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-102

SDG ID: GCK04448  
Phoenix ID: CK04448

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 16011  
Certification Date: 12/15/21 2:45 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_22.D\1214\_22-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-103

SDG ID: GCK04448  
Phoenix ID: CK04449

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 28565  
Certification Date: 12/15/21 5:19 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_26.D\1214\_26-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-101

SDG ID: GCK04448  
Phoenix ID: CK04450

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 28610  
Certification Date: 12/15/21 10:04 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_28.D\1214\_28-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-AA-101

SDG ID: GCK04448  
Phoenix ID: CK04451

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		





587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD  
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:

Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Phone #: \_\_\_\_\_

Report to: <b>JEFF D'Arrigo</b>	Project Name: <del>XXXXXXXXXX</del> <b>S3977</b>	Data Format: (Circle) Equis Excel Other: _____
Customer: <b>SAGE ENV.</b>	Invoice to: _____	Requested Deliverable: RCP ASP CAT B
Address: _____	Sampled by: <b>JMB</b>	MCP NJ Deliverables
		Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
04448	SE-IA-102	355	6.0	-30	-10	3263	3.8	8:32	8:32	12/20	-29	-9	X	C	✓		
04449	SE-IA-103	16011	↓	↓	0	7025	↓	8:36	8:36	12/20	-30	-5	X	C	✓		
04450	SE-IA-101	28565	↓	↓	0	2890	↓	8:26	8:26	12/20	-30	-2	X	C	✓		
04451	SE-AA-101	28610	↓	↓	0	3413	↓	8:40	8:40	12/20	-30	-5	X	C	✓		
(4)	6L Ind 24hr																

Relinquished by: _____	Accepted by: _____	Date: 12-22-21	Time: 1000	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
_____	_____	12/22/21	1317	

State Where Samples Collected: <b>RI</b>	Turnaround Time: 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/>	Requested Criteria: TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	(Please Circle) MA: <u>Indoor Air Residential</u> Soil Gas: Residential Ind/Commercial	NJ: Indoor Air Residential Ind/Commercial	NY: Vapor Intrusion	PA: Indoor Air Residential Non-residential	VT: Indoor Air Residential Industrial Sub-slab Residential Industrial
SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION: <b>Achieve Mass DEP Residential Indoor Air Detection Limits</b>							



Monday, January 03, 2022

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK04452  
Sample ID#s: CK04452 - CK04457

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

January 03, 2022

SDG I.D.: GCK04452

Project ID: S3977

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Client Id	Lab Id	Matrix
SE-201 (0`-2`)	CK04452	SOIL
SE-202 (0`-2`)	CK04453	SOIL
SE-203 (0`-2`)	CK04454	SOIL
SE-204 (2`-4`)	CK04455	SOIL
SE-205 (4`-6`)	CK04456	SOIL
SE-203 (4`-6`)	CK04457	SOIL



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**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

9:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04452

Project ID: S3977  
 Client ID: SE-201 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0033	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.27	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0033	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.033	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.26	0.22	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	0.4	0.22	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C

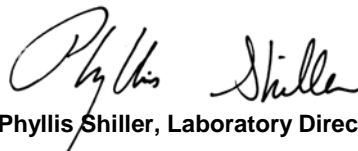
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	97		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

10:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04453

Project ID: S3977  
 Client ID: SE-202 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2-Hexanone	ND	0.03	mg/Kg	1	12/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.03	mg/Kg	1	12/30/21	JLI	SW8260C
Acetone	ND	0.3	mg/Kg	1	12/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Benzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromoform	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromomethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloroform	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0036	mg/Kg	1	12/30/21	JLI	SW8260C
Dibromomethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.036	mg/Kg	1	12/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Naphthalene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
o-Xylene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Styrene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Tetrachloroethene	0.86	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Toluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Total Xylenes	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Trichloroethene	0.77	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C

**QA/QC Surrogates**



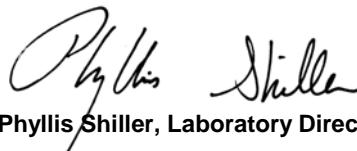
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane	70		%	1	12/30/21	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/30/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

11:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04454

Project ID: S3977  
 Client ID: SE-203 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	0.57	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	0.27	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	0.22	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.0042	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	0.49	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C

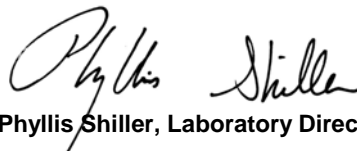
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	101		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

## Date

12/21/21  
12/22/21

## Time

12:30  
13:17

## Laboratory Data

SDG ID: GCK04452  
Phoenix ID: CK04455

Project ID: S3977  
Client ID: SE-204 (2`-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.27	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0032	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.032	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.16	0.15	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	0.085	0.083	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C

**QA/QC Surrogates**

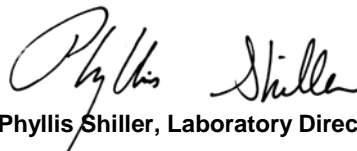
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	99		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

13:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04456

Project ID: S3977  
 Client ID: SE-205 (4`-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	12/28/21	JLI	SW8260C



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0029	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.029	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C

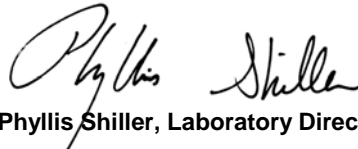
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/28/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

### Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

### Date

12/21/21  
 12/22/21

### Time

11:40  
 13:17

## Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04457

Project ID: S3977  
 Client ID: SE-203 (4`-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

### Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	0.0083	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C

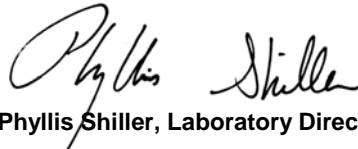
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/28/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
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**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

January 03, 2022

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blank	Bk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606679 (mg/Kg), QC Sample No: CK03724 (CK04453)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	0.005	96	109	12.7	105	108	2.8	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	93	106	13.1	99	101	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	91	98	7.4	100	101	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	92	101	9.3	101	103	2.0	70 - 130	30
1,1-Dichloroethane	ND	0.005	93	104	11.2	101	103	2.0	70 - 130	30
1,1-Dichloroethene	ND	0.005	89	104	15.5	94	97	3.1	70 - 130	30
1,1-Dichloropropene	ND	0.005	94	109	14.8	102	105	2.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	91	103	12.4	99	103	4.0	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	95	101	6.1	101	102	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	92	105	13.2	100	104	3.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	92	107	15.1	102	106	3.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	96	101	5.1	101	102	1.0	70 - 130	30
1,2-Dibromoethane	ND	0.005	96	105	9.0	104	106	1.9	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	89	101	12.6	99	102	3.0	70 - 130	30
1,2-Dichloroethane	ND	0.005	92	101	9.3	98	99	1.0	70 - 130	30
1,2-Dichloropropane	ND	0.005	93	104	11.2	103	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	96	111	14.5	105	109	3.7	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	91	104	13.3	100	104	3.9	70 - 130	30
1,3-Dichloropropane	ND	0.005	96	105	9.0	105	106	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	89	102	13.6	98	101	3.0	70 - 130	30
2,2-Dichloropropane	ND	0.005	98	112	13.3	101	103	2.0	70 - 130	30
2-Chlorotoluene	ND	0.005	94	109	14.8	105	109	3.7	70 - 130	30
2-Hexanone	ND	0.025	93	97	4.2	98	100	2.0	70 - 130	30
2-Isopropyltoluene	ND	0.005	94	109	14.8	103	106	2.9	70 - 130	30
4-Chlorotoluene	ND	0.005	93	107	14.0	103	106	2.9	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	95	100	5.1	101	102	1.0	70 - 130	30
Acetone	ND	0.01	80	86	7.2	91	91	0.0	70 - 130	30
Acrylonitrile	ND	0.005	90	94	4.3	94	96	2.1	70 - 130	30
Benzene	ND	0.001	91	104	13.3	101	103	2.0	70 - 130	30
Bromobenzene	ND	0.005	94	106	12.0	104	107	2.8	70 - 130	30
Bromochloromethane	ND	0.005	91	102	11.4	102	103	1.0	70 - 130	30
Bromodichloromethane	ND	0.005	91	103	12.4	100	102	2.0	70 - 130	30
Bromoform	ND	0.005	96	104	8.0	100	102	2.0	70 - 130	30
Bromomethane	ND	0.005	91	105	14.3	96	98	2.1	70 - 130	30
Carbon Disulfide	ND	0.005	85	99	15.2	87	88	1.1	70 - 130	30
Carbon tetrachloride	ND	0.005	85	118	32.5	88	111	23.1	70 - 130	30
Chlorobenzene	ND	0.005	92	105	13.2	102	104	1.9	70 - 130	30
Chloroethane	ND	0.005	90	107	17.3	93	94	1.1	70 - 130	30
Chloroform	ND	0.005	92	103	11.3	99	102	3.0	70 - 130	30
Chloromethane	ND	0.005	84	95	12.3	84	86	2.4	70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	92	104	12.2	101	103	2.0	70 - 130	30

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	0.005	96	108	11.8	105	108	2.8	70 - 130	30
Dibromochloromethane	ND	0.003	95	105	10.0	104	105	1.0	70 - 130	30
Dibromomethane	ND	0.005	93	102	9.2	102	103	1.0	70 - 130	30
Dichlorodifluoromethane	ND	0.005	78	88	12.0	72	72	0.0	70 - 130	30
Ethylbenzene	ND	0.001	94	108	13.9	103	106	2.9	70 - 130	30
Hexachlorobutadiene	ND	0.005	95	112	16.4	88	94	6.6	70 - 130	30
Isopropylbenzene	ND	0.001	96	112	15.4	106	111	4.6	70 - 130	30
m&p-Xylene	ND	0.002	93	107	14.0	103	106	2.9	70 - 130	30
Methyl ethyl ketone	ND	0.005	91	90	1.1	92	92	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	93	101	8.2	100	101	1.0	70 - 130	30
Methylene chloride	ND	0.005	81	93	13.8	92	92	0.0	70 - 130	30
Naphthalene	ND	0.005	96	106	9.9	105	107	1.9	70 - 130	30
n-Butylbenzene	ND	0.001	95	112	16.4	101	106	4.8	70 - 130	30
n-Propylbenzene	ND	0.001	94	110	15.7	106	109	2.8	70 - 130	30
o-Xylene	ND	0.002	94	108	13.9	105	107	1.9	70 - 130	30
p-Isopropyltoluene	ND	0.001	96	113	16.3	105	109	3.7	70 - 130	30
sec-Butylbenzene	ND	0.001	96	112	15.4	104	108	3.8	70 - 130	30
Styrene	ND	0.005	98	111	12.4	108	111	2.7	70 - 130	30
tert-Butylbenzene	ND	0.001	96	112	15.4	106	110	3.7	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	88	92	4.4	93	94	1.1	70 - 130	30
Toluene	ND	0.001	91	104	13.3	101	104	2.9	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	91	105	14.3	97	99	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	99	108	8.7	105	108	2.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	102	108	5.7	105	107	1.9	70 - 130	30
Trichlorofluoromethane	ND	0.005	93	108	14.9	93	95	2.1	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	82	96	15.7	85	88	3.5	70 - 130	30
Vinyl chloride	ND	0.005	91	104	13.3	93	94	1.1	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	95	%	102	101	1.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	100	%	101	100	1.0	100	98	2.0	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	101	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606679H (mg/Kg), QC Sample No: CK03724 (CK04452 (50X) , CK04453 (50X) )

Volatiles - Soil (High Level)

Tetrachloroethene	ND	0.005	117	119	1.7	103	115	11.0	70 - 130	30
Trichloroethene	ND	0.005	114	114	0.0	100	111	10.4	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	94	%	101	100	1.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	95	%	93	95	2.1	94	96	2.1	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606393 (mg/Kg), QC Sample No: CK04456 (CK04452, CK04454, CK04455, CK04456, CK04457)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	114	110	3.6	105	104	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	108	103	4.7	100	92	8.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	97	91	6.4	89	77	14.5	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	97	89	8.6	83	77	7.5	70 - 130	30
1,1-Dichloroethane	ND	0.005	96	92	4.3	91	84	8.0	70 - 130	30

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,1-Dichloroethene	ND	0.005	119	116	2.6	116	118	1.7	70 - 130	30	
1,1-Dichloropropene	ND	0.005	96	92	4.3	87	77	12.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	104	99	4.9	64	56	13.3	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	109	104	4.7	99	97	2.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	109	102	6.6	63	55	13.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	108	103	4.7	92	88	4.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	100	92	8.3	80	76	5.1	70 - 130	30	
1,2-Dibromoethane	ND	0.005	102	92	10.3	87	83	4.7	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	111	107	3.7	92	87	5.6	70 - 130	30	
1,2-Dichloroethane	ND	0.005	103	99	4.0	95	86	9.9	70 - 130	30	
1,2-Dichloropropane	ND	0.005	89	85	4.6	82	74	10.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	109	105	3.7	94	90	4.3	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	105	99	5.9	84	81	3.6	70 - 130	30	
1,3-Dichloropropane	ND	0.005	101	95	6.1	87	81	7.1	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	109	105	3.7	88	84	4.7	70 - 130	30	
2,2-Dichloropropane	ND	0.005	123	118	4.1	108	98	9.7	70 - 130	30	
2-Chlorotoluene	ND	0.005	105	99	5.9	92	86	6.7	70 - 130	30	
2-Hexanone	ND	0.025	93	83	11.4	71	68	4.3	70 - 130	30	m
2-Isopropyltoluene	ND	0.005	107	105	1.9	92	88	4.4	70 - 130	30	
4-Chlorotoluene	ND	0.005	106	101	4.8	90	85	5.7	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	93	90	3.3	80	71	11.9	70 - 130	30	
Acetone	ND	0.01	98	93	5.2	97	98	1.0	70 - 130	30	
Acrylonitrile	ND	0.005	90	83	8.1	77	67	13.9	70 - 130	30	m
Benzene	ND	0.001	98	95	3.1	92	89	3.3	70 - 130	30	
Bromobenzene	ND	0.005	104	99	4.9	92	87	5.6	70 - 130	30	
Bromochloromethane	ND	0.005	107	100	6.8	98	95	3.1	70 - 130	30	
Bromodichloromethane	ND	0.005	98	93	5.2	88	83	5.8	70 - 130	30	
Bromoform	ND	0.005	116	113	2.6	104	102	1.9	70 - 130	30	
Bromomethane	ND	0.005	125	117	6.6	123	129	4.8	70 - 130	30	
Carbon Disulfide	ND	0.005	112	110	1.8	104	100	3.9	70 - 130	30	
Carbon tetrachloride	ND	0.005	126	121	4.0	116	109	6.2	70 - 130	30	
Chlorobenzene	ND	0.005	110	105	4.7	99	98	1.0	70 - 130	30	
Chloroethane	ND	0.005	118	115	2.6	115	120	4.3	70 - 130	30	
Chloroform	ND	0.005	102	99	3.0	97	89	8.6	70 - 130	30	
Chloromethane	ND	0.005	68	64	6.1	61	59	3.3	70 - 130	30	l,m
cis-1,2-Dichloroethene	ND	0.005	99	95	4.1	92	85	7.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	100	94	6.2	87	79	9.6	70 - 130	30	
Dibromochloromethane	ND	0.003	104	100	3.9	93	88	5.5	70 - 130	30	
Dibromomethane	ND	0.005	99	91	8.4	88	81	8.3	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	72	69	4.3	65	62	4.7	70 - 130	30	l,m
Ethylbenzene	ND	0.001	110	106	3.7	97	96	1.0	70 - 130	30	
Hexachlorobutadiene	ND	0.005	97	95	2.1	55	47	15.7	70 - 130	30	m
Isopropylbenzene	ND	0.001	104	100	3.9	93	88	5.5	70 - 130	30	
m&p-Xylene	ND	0.002	113	108	4.5	100	99	1.0	70 - 130	30	
Methyl ethyl ketone	ND	0.005	90	80	11.8	71	67	5.8	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	0.001	124	119	4.1	118	118	0.0	70 - 130	30	
Methylene chloride	ND	0.005	102	99	3.0	105	107	1.9	70 - 130	30	
Naphthalene	ND	0.005	105	100	4.9	75	67	11.3	70 - 130	30	m
n-Butylbenzene	ND	0.001	108	104	3.8	78	74	5.3	70 - 130	30	
n-Propylbenzene	ND	0.001	106	100	5.8	89	86	3.4	70 - 130	30	
o-Xylene	ND	0.002	105	101	3.9	94	92	2.2	70 - 130	30	
p-Isopropyltoluene	ND	0.001	109	105	3.7	87	83	4.7	70 - 130	30	
sec-Butylbenzene	ND	0.001	107	103	3.8	88	85	3.5	70 - 130	30	



QA/QC Data

SDG I.D.: GCK04452

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Styrene	ND	0.005	112	108	3.6	99	97	2.0	70 - 130	30	
tert-Butylbenzene	ND	0.001	106	103	2.9	95	90	5.4	70 - 130	30	
Tetrachloroethene	ND	0.005	94	89	5.5	75	69	8.3	70 - 130	30	m
Tetrahydrofuran (THF)	ND	0.005	89	86	3.4	78	69	12.2	70 - 130	30	m
Toluene	ND	0.001	99	95	4.1	92	89	3.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	118	114	3.4	114	116	1.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	115	108	6.3	100	91	9.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	131	123	6.3	107	104	2.8	70 - 130	30	l
Trichloroethene	ND	0.005	102	99	3.0	92	89	3.3	70 - 130	30	
Trichlorofluoromethane	ND	0.005	119	116	2.6	118	119	0.8	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	110	107	2.8	108	108	0.0	70 - 130	30	
Vinyl chloride	ND	0.005	102	99	3.0	100	100	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	103	102	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	91	%	96	94	2.1	93	92	1.1	70 - 130	30	
% Dibromofluoromethane	94	%	95	94	1.1	93	89	4.4	70 - 130	30	
% Toluene-d8	98	%	93	92	1.1	93	91	2.2	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606674H (mg/Kg), QC Sample No: CK07092 (CK04454 (50X) , CK04455 (50X) )

Volatiles - Soil (High Level)

Ethylbenzene	ND	0.005	105	106	0.9	106	107	0.9	70 - 130	30	
m&p-Xylene	ND	0.005	102	103	1.0	103	104	1.0	70 - 130	30	
o-Xylene	ND	0.005	104	103	1.0	103	105	1.9	70 - 130	30	
Tetrachloroethene	ND	0.005	109	109	0.0	109	110	0.9	70 - 130	30	
Trichloroethene	ND	0.005	104	106	1.9	105	105	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	100	0.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	98	95	3.1	94	96	2.1	70 - 130	30	
% Toluene-d8	93	%	102	102	0.0	101	101	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

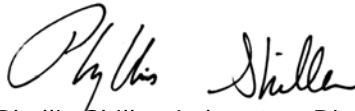
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 January 03, 2022

Monday, January 03, 2022

Criteria: RI: GB LEACH, RC

State: RI

## Sample Criteria Exceedances Report

GCK04452 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

January 03, 2022

SDG I.D.: GCK04452

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **VOA Narration**

**CHEM03 12/28/21-1:** CK04452, CK04454, CK04455, CK04456, CK04457

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 23% (20%), Chloroethane 24% (20%), Methylene chloride 22% (20%), trans-1,4-dichloro-2-butene 25% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.068 (0.1), Tetrachloroethene 0.164 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Chloromethane 36%L (30%), Dichlorodifluoromethane 32%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM03 12/30/21-1:** CK04452, CK04453

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.057 (0.1), Tetrachloroethene 0.162 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Acetone 0.045 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: Acetone 0.057 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



### CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant: Yes  No   
 IPK  ICE

Temp 22°C Pg of

**Data Delivery/Contact Options:**

Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer: SAGE ENVIRONMENTAL  
 Address: 172 ARMISTICE BLVD  
PAWTUCKET, RI 02860

Project: ~~XXXXXXXXXX~~ S3977  
 Report to: \_\_\_\_\_  
 Invoice to: \_\_\_\_\_  
 QUOTE # \_\_\_\_\_

Project P.O.: \_\_\_\_\_

**This section MUST be completed with Bottle Quantities.**

Client Sample - Information - Identification  
 Sampler's Signature: [Signature] Date: 12/21/21

**Matrix Code:**  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X = \_\_\_\_\_ (Other)

Analysis Request

VOCs	MS/MSD*	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (1) methanol (2) H2O	GL Soil container ( 8 ) oz	GL Soil container ( ) oz	40 ml VOA Vial ( ) As is ( ) HCL	PL As is ( ) 250ml ( ) 500ml ( ) 1000ml	PL H2SO4 ( ) 250ml ( ) 500ml ( ) 1000ml	PL HNO3 250ml	Bacteria Bottle w/100	Bacteria Bottle as is
	X	X	X								

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
04452	SE-201(0'-2')	S	12/21/21	9:30
04453	SE-202(0'-2')			10:30
04454	SE-203(0'-2')			11:30
04455	SE-204(2'-4')			12:30
04456	SE-205(4'-6')			13:30
04457	SE-203(4'-6')			11:40

Relinquished by: [Signature]

Accepted by: [Signature]

Date: 12/21/21 Time: 1000  
12/22 1317

RI  (Residential) Direct Exposure  
 (Comm/Industrial) Direct Exposure  
 GA Leachability  
 GB Leachability  
 GA-GW Objectives  
 GB-GW Objectives

CT  RCP Cert  
 GW Protection  
 SW Protection  
 GA Mobility  
 GB Mobility  
 Residential DEC  
 I/C DEC  
 Other

MA  MCP Certification  
 GW-1  MWRA eSMART  
 GW-2  S-1 10% CALC  
 GW-3  
 S-1 GW-1  S-1 GW-2  S-1 GW-3  
 S-2 GW-1  S-2 GW-2  S-2 GW-3  
 S-3 GW-1  S-3 GW-2  S-3 GW-3  
 SW Protection

Data Format  
 Excel  
 PDF  
 GIS/Key  
 EQulS  
 Other  
**Data Package**  
 Tier II Checklist  
 Full Data Package\*  
 Phoenix Std Report  
 Other

Comments, Special Requirements or Regulations:  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other

\* SURCHARGE APPLIES

State where samples were collected: RI

\* SURCHARGE APPLIES

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

17.10.17.21.012



Friday, January 07, 2022

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK09786  
Sample ID#s: CK09786 - CK09787

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

January 07, 2022

SDG I.D.: GCK09786

Project ID: S3977

---

Client Id	Lab Id	Matrix
SE-301 (25-28)	CK09786	SOIL
SE-302 (10-15)	CK09787	SOIL



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 07, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

Date                      Time  
01/04/22  
01/05/22                      12:42

## Laboratory Data

SDG ID: GCK09786  
Phoenix ID: CK09786

Project ID: S3977  
Client ID: SE-301 (25-28)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		01/05/22	JS	SW846-%Solid
Field Extraction	Completed				01/04/22		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromoethane	ND	0.00042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2,2-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2-Chlorotoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	01/06/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
4-Chlorotoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	01/06/22	JLI	SW8260C
Acetone	ND	0.21	mg/Kg	1	01/06/22	JLI	SW8260C
Acrylonitrile	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Benzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromochloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromodichloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromoform	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromomethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon Disulfide	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon tetrachloride	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroform	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromomethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Ethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Hexachlorobutadiene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Isopropylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
m&p-Xylene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Methylene chloride	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Naphthalene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
n-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
n-Propylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
o-Xylene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
p-Isopropyltoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
sec-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Styrene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
tert-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrachloroethene	0.21	0.21	mg/Kg	50	01/07/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Toluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Total Xylenes	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Trichloroethene	0.23	0.23	mg/Kg	50	01/07/22	JLI	SW8260C
Trichlorofluoromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Vinyl chloride	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C

**QA/QC Surrogates**

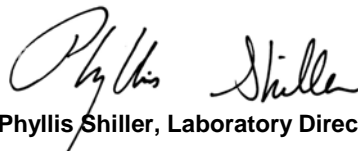


Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	102		%	1	01/06/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/06/22	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/06/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/06/22	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	01/07/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	01/07/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	102		%	50	01/07/22	JLI	70 - 130 %
% Toluene-d8 (50x)	100		%	50	01/07/22	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 07, 2022**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 07, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

Date                      Time  
01/04/22  
01/05/22                      12:42

## Laboratory Data

SDG ID: GCK09786  
Phoenix ID: CK09787

Project ID: S3977  
Client ID: SE-302 (10-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/05/22	JS	SW846-%Solid
Field Extraction	Completed				01/04/22		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromoethane	ND	0.00043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2,2-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2-Chlorotoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	01/06/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
4-Chlorotoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	01/06/22	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	01/06/22	JLI	SW8260C
Acrylonitrile	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Benzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromochloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromodichloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromoform	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromomethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon Disulfide	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon tetrachloride	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroform	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromomethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Ethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Hexachlorobutadiene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Isopropylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
m&p-Xylene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Methylene chloride	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Naphthalene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
n-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
n-Propylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
o-Xylene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
p-Isopropyltoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
sec-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Styrene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
tert-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrachloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Toluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Total Xylenes	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Trichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorofluoromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Vinyl chloride	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C

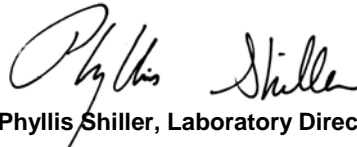
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	102		%	1	01/06/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/06/22	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	01/06/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/06/22	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

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**Phyllis Shiller, Laboratory Director**

**January 07, 2022**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

January 07, 2022

## QA/QC Data

SDG I.D.: GCK09786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 607214 (mg/Kg), QC Sample No: CK09767 (CK09786, CK09787)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	0.005	100	105	4.9	88			70 - 130	30
1,1,1-Trichloroethane	ND	0.005	100	107	6.8	97			70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	101	105	3.9	84			70 - 130	30
1,1,2-Trichloroethane	ND	0.005	98	103	5.0	91			70 - 130	30
1,1-Dichloroethane	ND	0.005	105	111	5.6	103			70 - 130	30
1,1-Dichloroethene	ND	0.005	102	108	5.7	101			70 - 130	30
1,1-Dichloropropene	ND	0.005	102	107	4.8	98			70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	100	102	2.0	40			70 - 130	30 m
1,2,3-Trichloropropane	ND	0.005	104	109	4.7	94			70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	103	104	1.0	42			70 - 130	30 m
1,2,4-Trimethylbenzene	ND	0.001	100	103	3.0	67			70 - 130	30 m
1,2-Dibromo-3-chloropropane	ND	0.005	99	102	3.0	78			70 - 130	30
1,2-Dibromoethane	ND	0.005	101	105	3.9	91			70 - 130	30
1,2-Dichlorobenzene	ND	0.005	96	101	5.1	58			70 - 130	30 m
1,2-Dichloroethane	ND	0.005	98	103	5.0	93			70 - 130	30
1,2-Dichloropropane	ND	0.005	102	107	4.8	100			70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	101	107	5.8	76			70 - 130	30
1,3-Dichlorobenzene	ND	0.005	98	102	4.0	63			70 - 130	30 m
1,3-Dichloropropane	ND	0.005	102	106	3.8	95			70 - 130	30
1,4-Dichlorobenzene	ND	0.005	97	100	3.0	62			70 - 130	30 m
2,2-Dichloropropane	ND	0.005	108	115	6.3	104			70 - 130	30
2-Chlorotoluene	ND	0.005	100	105	4.9	74			70 - 130	30
2-Hexanone	ND	0.025	106	108	1.9	87			70 - 130	30
2-Isopropyltoluene	ND	0.005	100	104	3.9	68			70 - 130	30 m
4-Chlorotoluene	ND	0.005	101	105	3.9	73			70 - 130	30
4-Methyl-2-pentanone	ND	0.025	111	115	3.5	103			70 - 130	30
Acetone	ND	0.01	106	109	2.8	93			70 - 130	30
Acrylonitrile	ND	0.005	107	110	2.8	95			70 - 130	30
Benzene	ND	0.001	100	105	4.9	98			70 - 130	30
Bromobenzene	ND	0.005	98	103	5.0	77			70 - 130	30
Bromochloromethane	ND	0.005	103	107	3.8	97			70 - 130	30
Bromodichloromethane	ND	0.005	99	104	4.9	93			70 - 130	30
Bromoform	ND	0.005	100	103	3.0	81			70 - 130	30
Bromomethane	ND	0.005	94	101	7.2	99			70 - 130	30
Carbon Disulfide	ND	0.005	99	104	4.9	93			70 - 130	30
Carbon tetrachloride	ND	0.005	92	99	7.3	87			70 - 130	30
Chlorobenzene	ND	0.005	97	102	5.0	83			70 - 130	30
Chloroethane	ND	0.005	99	108	8.7	103			70 - 130	30
Chloroform	ND	0.005	102	109	6.6	98			70 - 130	30
Chloromethane	ND	0.005	96	103	7.0	100			70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	102	109	6.6	99			70 - 130	30

## QA/QC Data

SDG I.D.: GCK09786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,3-Dichloropropene	ND	0.005	104	108	3.8	94			70 - 130	30
Dibromochloromethane	ND	0.003	98	102	4.0	88			70 - 130	30
Dibromomethane	ND	0.005	100	106	5.8	92			70 - 130	30
Dichlorodifluoromethane	ND	0.005	97	104	7.0	108			70 - 130	30
Ethylbenzene	ND	0.001	99	103	4.0	84			70 - 130	30
Hexachlorobutadiene	ND	0.005	99	103	4.0	49			70 - 130	30 m
Isopropylbenzene	ND	0.001	102	106	3.8	83			70 - 130	30
m&p-Xylene	ND	0.002	100	105	4.9	82			70 - 130	30
Methyl ethyl ketone	ND	0.005	107	114	6.3	97			70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	101	107	5.8	100			70 - 130	30
Methylene chloride	ND	0.005	93	99	6.3	90			70 - 130	30
Naphthalene	ND	0.005	103	107	3.8	15			70 - 130	30 m
n-Butylbenzene	ND	0.001	105	110	4.7	61			70 - 130	30 m
n-Propylbenzene	ND	0.001	101	106	4.8	75			70 - 130	30
o-Xylene	ND	0.002	98	102	4.0	81			70 - 130	30
p-Isopropyltoluene	ND	0.001	103	107	3.8	71			70 - 130	30
sec-Butylbenzene	ND	0.001	103	107	3.8	70			70 - 130	30
Styrene	ND	0.005	103	108	4.7	75			70 - 130	30
tert-Butylbenzene	ND	0.001	101	107	5.8	77			70 - 130	30
Tetrachloroethene	ND	0.005	97	102	5.0	82			70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	107	109	1.9	101			70 - 130	30
Toluene	ND	0.001	97	103	6.0	90			70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	101	107	5.8	96			70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	106	112	5.5	90			70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	111	114	2.7	91			70 - 130	30
Trichloroethene	ND	0.005	98	103	5.0	95			70 - 130	30
Trichlorofluoromethane	ND	0.005	101	108	6.7	98			70 - 130	30
Trichlorotrifluoroethane	ND	0.005	92	97	5.3	89			70 - 130	30
Vinyl chloride	ND	0.005	105	113	7.3	110			70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	101	101	0.0	99			70 - 130	30
% Bromofluorobenzene	95	%	101	100	1.0	99			70 - 130	30
% Dibromofluoromethane	101	%	100	100	0.0	99			70 - 130	30
% Toluene-d8	98	%	99	100	1.0	100			70 - 130	30

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 607383H (mg/Kg), QC Sample No: CK10069 50X (CK09786 (50X) )

### Volatiles - Soil (High Level)

Tetrachloroethene	ND	0.25	105	111	5.6	106	107	0.9	70 - 130	30
Trichloroethene	ND	0.25	104	108	3.8	110	108	1.8	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0	103	101	2.0	70 - 130	30
% Bromofluorobenzene	98	%	101	100	1.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	103	%	104	102	1.9	104	104	0.0	70 - 130	30
% Toluene-d8	99	%	99	100	1.0	101	99	2.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

# QA/QC Data

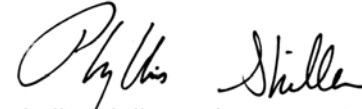
SDG I.D.: GCK09786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
January 07, 2022

Friday, January 07, 2022

Criteria: RI: GB LEACH, RC

State: RI

# Sample Criteria Exceedances Report

GCK09786 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

January 07, 2022

SDG I.D.: GCK09786

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



### CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant: Yes  No   
 IPK  ICE

Temp 24 °C Pg      of     

**Data Delivery/Contact Options:**

Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer: SAGE Environmental, Inc.  
 Address: 172 Acmistice Blvd, Pawtucket RI

Project: S3977  
 Report to: SAGE @sage-enviro.com  
 Invoice to: \_\_\_\_\_  
 QUOTE # \_\_\_\_\_

Project P.O: \_\_\_\_\_

**This section MUST be completed with Bottle Quantities.**

**Client Sample - Information - Identification**

Sampler's Signature \_\_\_\_\_ Date: \_\_\_\_\_

**Matrix Code:**  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X = \_\_\_\_\_ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
09786	SE-301 (25-28)	S	1/4/22	
09787	SE-302 (10-15)	S	1/4/22	

VOCs		MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (1) methanol (2) H2O	GL Soil container ( ) oz	40 ml VOA Vial ( ) As is ( ) HCL	PL Amber 1000ml ( ) H2SO4	PL HNO3 250ml ( ) 1000ml	PL NaOH 250ml	Bacteria Bottle with/o	Bacteria Bottle as is
X	↓										

Relinquished by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>1/5/22</u>	Time: <u>9:40</u>	RI <input checked="" type="checkbox"/> (Residential) Direct Exposure <input type="checkbox"/> (Comm/Industrial) Direct Exposure <input type="checkbox"/> GA Leachability <input checked="" type="checkbox"/> GB Leachability <input type="checkbox"/> GA-GW Objectives <input type="checkbox"/> GB-GW Objectives	CT <input type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> GW-2 <input type="checkbox"/> S-1 10% CALC <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 GW-1 <input type="checkbox"/> S-1 GW-2 <input type="checkbox"/> S-1 GW-3 <input type="checkbox"/> S-2 GW-1 <input type="checkbox"/> S-2 GW-2 <input type="checkbox"/> S-2 GW-3 <input type="checkbox"/> S-3 GW-1 <input type="checkbox"/> S-3 GW-2 <input type="checkbox"/> S-3 GW-3 <input type="checkbox"/> SW Protection	Data Format <input type="checkbox"/> Excel <input type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other
Comments, Special Requirements or Regulations: <u>Meet RT Residential Direct Exposure detection limits</u>		Turnaround Time: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other		State where samples were collected: <u>RI</u>		* SURCHARGE APPLIES	

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.



New England Testing Laboratory, Inc.  
(401) 353-3420

## REPORT OF ANALYTICAL RESULTS

**NETLAB Work Order Number: 2A10079**  
**Client Project: S3977 - 1144 Eddy St, Providence, RI**

Report Date: 12-January-2022

Prepared for:

Cathy Racine  
SAGE Environmental  
172 Armistice Blvd  
Pawtucket, RI 02860

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Richard Warila, Laboratory Director  
New England Testing Laboratory, Inc.  
59 Greenhill Street  
West Warwick, RI 02893  
rich.warila@newenglandtesting.com

### ***Samples Submitted :***

The samples listed below were submitted to New England Testing Laboratory on 01/10/22. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 2A10079. Custody records are included in this report.

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
2A10079-01	SE-301 (MW)	Water	01/10/2022	01/10/2022
2A10079-02	SE-302 (MW)	Water	01/10/2022	01/10/2022

## ***Request for Analysis***

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### **SE-301 (MW) (Lab Number: 2A10079-01)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-302 (MW) (Lab Number: 2A10079-02)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

## ***Method References***

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA*

## Case Narrative

### Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

### Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

## Results: Volatile Organic Compounds

**Sample: SE-301 (MW)**

**Lab Number: 2A10079-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	01/10/22	01/11/22
Benzene	ND		1	ug/l	01/10/22	01/11/22
Bromobenzene	ND		1	ug/l	01/10/22	01/11/22
Bromochloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromodichloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromoform	ND		1	ug/l	01/10/22	01/11/22
Bromomethane	ND		1	ug/l	01/10/22	01/11/22
2-Butanone	ND		5	ug/l	01/10/22	01/11/22
tert-Butyl alcohol	ND		5	ug/l	01/10/22	01/11/22
sec-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
n-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
tert-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
Methyl t-butyl ether (MTBE)	ND		1	ug/l	01/10/22	01/11/22
Carbon Disulfide	ND		1	ug/l	01/10/22	01/11/22
Carbon Tetrachloride	ND		1	ug/l	01/10/22	01/11/22
Chlorobenzene	ND		1	ug/l	01/10/22	01/11/22
Chloroethane	ND		1	ug/l	01/10/22	01/11/22
Chloroform	ND		1	ug/l	01/10/22	01/11/22
Chloromethane	ND		1	ug/l	01/10/22	01/11/22
4-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
2-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	01/10/22	01/11/22
Dibromochloromethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromoethane (EDB)	ND		1	ug/l	01/10/22	01/11/22
Dibromomethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,4-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
trans-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
cis-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
2,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
cis-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
trans-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	01/10/22	01/11/22
Diethyl ether	ND		5	ug/l	01/10/22	01/11/22
1,4-Dioxane	ND		500	ug/l	01/10/22	01/11/22
Ethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Hexachlorobutadiene	ND		1	ug/l	01/10/22	01/11/22
2-Hexanone	ND		5	ug/l	01/10/22	01/11/22
Isopropylbenzene	ND		1	ug/l	01/10/22	01/11/22
p-Isopropyltoluene	ND		1	ug/l	01/10/22	01/11/22
Methylene Chloride	ND		1	ug/l	01/10/22	01/11/22
4-Methyl-2-pentanone	ND		5	ug/l	01/10/22	01/11/22

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-301 (MW) (Continued)**

**Lab Number: 2A10079-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	01/10/22	01/11/22
n-Propylbenzene	ND		1	ug/l	01/10/22	01/11/22
Styrene	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
Tetrachloroethene	ND		1	ug/l	01/10/22	01/11/22
Tetrahydrofuran	ND		5	ug/l	01/10/22	01/11/22
Toluene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,3-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1,2-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,1,1-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
<b>Trichloroethene</b>	<b>12</b>		1	ug/l	01/10/22	01/11/22
1,2,3-Trichloropropane	ND		1	ug/l	01/10/22	01/11/22
1,3,5-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Vinyl Chloride	ND		1	ug/l	01/10/22	01/11/22
o-Xylene	ND		1	ug/l	01/10/22	01/11/22
m&p-Xylene	ND		2	ug/l	01/10/22	01/11/22
Total xylenes	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl methyl ether	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
Ethyl tert-butyl ether	ND		1	ug/l	01/10/22	01/11/22
Diisopropyl ether	ND		1	ug/l	01/10/22	01/11/22
Trichlorofluoromethane	ND		1	ug/l	01/10/22	01/11/22
Dichlorodifluoromethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl Alcohol	ND		5	ug/l	01/10/22	01/11/22
<hr/>						
Surrogate(s)	Recovery%		Limits			
<hr/>						
<i>4-Bromofluorobenzene</i>	<i>94.5%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>1,2-Dichloroethane-d4</i>	<i>103%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>Toluene-d8</i>	<i>97.8%</i>		<i>70-130</i>		01/10/22	01/11/22



## Results: Volatile Organic Compounds

**Sample: SE-302 (MW)**

**Lab Number: 2A10079-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	01/10/22	01/11/22
Benzene	ND		1	ug/l	01/10/22	01/11/22
Bromobenzene	ND		1	ug/l	01/10/22	01/11/22
Bromochloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromodichloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromoform	ND		1	ug/l	01/10/22	01/11/22
Bromomethane	ND		1	ug/l	01/10/22	01/11/22
2-Butanone	ND		5	ug/l	01/10/22	01/11/22
tert-Butyl alcohol	ND		5	ug/l	01/10/22	01/11/22
sec-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
n-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
tert-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
Methyl t-butyl ether (MTBE)	ND		1	ug/l	01/10/22	01/11/22
Carbon Disulfide	ND		1	ug/l	01/10/22	01/11/22
Carbon Tetrachloride	ND		1	ug/l	01/10/22	01/11/22
Chlorobenzene	ND		1	ug/l	01/10/22	01/11/22
Chloroethane	ND		1	ug/l	01/10/22	01/11/22
Chloroform	ND		1	ug/l	01/10/22	01/11/22
Chloromethane	ND		1	ug/l	01/10/22	01/11/22
4-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
2-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	01/10/22	01/11/22
Dibromochloromethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromoethane (EDB)	ND		1	ug/l	01/10/22	01/11/22
Dibromomethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,4-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
trans-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
cis-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
2,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
cis-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
trans-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	01/10/22	01/11/22
Diethyl ether	ND		5	ug/l	01/10/22	01/11/22
1,4-Dioxane	ND		500	ug/l	01/10/22	01/11/22
Ethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Hexachlorobutadiene	ND		1	ug/l	01/10/22	01/11/22
2-Hexanone	ND		5	ug/l	01/10/22	01/11/22
Isopropylbenzene	ND		1	ug/l	01/10/22	01/11/22
p-Isopropyltoluene	ND		1	ug/l	01/10/22	01/11/22
Methylene Chloride	ND		1	ug/l	01/10/22	01/11/22
4-Methyl-2-pentanone	ND		5	ug/l	01/10/22	01/11/22

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-302 (MW) (Continued)**

**Lab Number: 2A10079-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	01/10/22	01/11/22
n-Propylbenzene	ND		1	ug/l	01/10/22	01/11/22
Styrene	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
Tetrachloroethene	ND		1	ug/l	01/10/22	01/11/22
Tetrahydrofuran	ND		5	ug/l	01/10/22	01/11/22
Toluene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,3-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1,2-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,1,1-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
<b>Trichloroethene</b>	<b>3</b>		1	ug/l	01/10/22	01/11/22
1,2,3-Trichloropropane	ND		1	ug/l	01/10/22	01/11/22
1,3,5-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Vinyl Chloride	ND		1	ug/l	01/10/22	01/11/22
o-Xylene	ND		1	ug/l	01/10/22	01/11/22
m&p-Xylene	ND		2	ug/l	01/10/22	01/11/22
Total xylenes	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl methyl ether	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
Ethyl tert-butyl ether	ND		1	ug/l	01/10/22	01/11/22
Diisopropyl ether	ND		1	ug/l	01/10/22	01/11/22
Trichlorofluoromethane	ND		1	ug/l	01/10/22	01/11/22
Dichlorodifluoromethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl Alcohol	ND		5	ug/l	01/10/22	01/11/22
<hr/>						
Surrogate(s)	Recovery%		Limits			
<hr/>						
<i>4-Bromofluorobenzene</i>	<i>96.0%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>1,2-Dichloroethane-d4</i>	<i>102%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>Toluene-d8</i>	<i>96.2%</i>		<i>70-130</i>		01/10/22	01/11/22

## Quality Control

### Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap</b>										
<b>Blank (B2A0425-BLK1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	ND		5	ug/l						
Benzene	ND		1	ug/l						
Bromobenzene	ND		1	ug/l						
Bromochloromethane	ND		1	ug/l						
Bromodichloromethane	ND		1	ug/l						
Bromoform	ND		1	ug/l						
Bromomethane	ND		1	ug/l						
2-Butanone	ND		5	ug/l						
tert-Butyl alcohol	ND		5	ug/l						
sec-Butylbenzene	ND		1	ug/l						
n-Butylbenzene	ND		1	ug/l						
tert-Butylbenzene	ND		1	ug/l						
Methyl t-butyl ether (MTBE)	ND		1	ug/l						
Carbon Disulfide	ND		1	ug/l						
Carbon Tetrachloride	ND		1	ug/l						
Chlorobenzene	ND		1	ug/l						
Chloroethane	ND		1	ug/l						
Chloroform	ND		1	ug/l						
Chloromethane	ND		1	ug/l						
4-Chlorotoluene	ND		1	ug/l						
2-Chlorotoluene	ND		1	ug/l						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l						
Dibromochloromethane	ND		1	ug/l						
1,2-Dibromoethane (EDB)	ND		1	ug/l						
Dibromomethane	ND		1	ug/l						
1,2-Dichlorobenzene	ND		1	ug/l						
1,3-Dichlorobenzene	ND		1	ug/l						
1,4-Dichlorobenzene	ND		1	ug/l						
1,1-Dichloroethane	ND		1	ug/l						
1,2-Dichloroethane	ND		1	ug/l						
trans-1,2-Dichloroethene	ND		1	ug/l						
cis-1,2-Dichloroethene	ND		1	ug/l						
1,1-Dichloroethene	ND		1	ug/l						
1,2-Dichloropropane	ND		1	ug/l						
2,2-Dichloropropane	ND		1	ug/l						
cis-1,3-Dichloropropene	ND		1	ug/l						
trans-1,3-Dichloropropene	ND		1	ug/l						
1,1-Dichloropropene	ND		1	ug/l						
1,3-Dichloropropene (cis + trans)	ND		2	ug/l						
Diethyl ether	ND		5	ug/l						
1,4-Dioxane	ND		500	ug/l						
Ethylbenzene	ND		1	ug/l						
Hexachlorobutadiene	ND		1	ug/l						
2-Hexanone	ND		5	ug/l						
Isopropylbenzene	ND		1	ug/l						
p-Isopropyltoluene	ND		1	ug/l						
Methylene Chloride	ND		1	ug/l						
4-Methyl-2-pentanone	ND		5	ug/l						
Naphthalene	ND		1	ug/l						
n-Propylbenzene	ND		1	ug/l						
Styrene	ND		1	ug/l						
1,1,1,2-Tetrachloroethane	ND		1	ug/l						
Tetrachloroethene	ND		1	ug/l						
Tetrahydrofuran	ND		5	ug/l						

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>Blank (B2A0425-BLK1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Toluene	ND		1	ug/l						
1,2,4-Trichlorobenzene	ND		1	ug/l						
1,2,3-Trichlorobenzene	ND		1	ug/l						
1,1,2-Trichloroethane	ND		1	ug/l						
1,1,1-Trichloroethane	ND		1	ug/l						
Trichloroethene	ND		1	ug/l						
1,2,3-Trichloropropane	ND		1	ug/l						
1,3,5-Trimethylbenzene	ND		1	ug/l						
1,2,4-Trimethylbenzene	ND		1	ug/l						
Vinyl Chloride	ND		1	ug/l						
o-Xylene	ND		1	ug/l						
m&p-Xylene	ND		2	ug/l						
Total xylenes	ND		1	ug/l						
1,1,2,2-Tetrachloroethane	ND		1	ug/l						
tert-Amyl methyl ether	ND		1	ug/l						
1,3-Dichloropropane	ND		1	ug/l						
Ethyl tert-butyl ether	ND		1	ug/l						
Diisopropyl ether	ND		1	ug/l						
Trichlorofluoromethane	ND		1	ug/l						
Dichlorodifluoromethane	ND		1	ug/l						
tert-Amyl Alcohol	ND		5	ug/l						
<i>Surrogate: 4-Bromofluorobenzene</i>			46.6	ug/l	50.0		93.1	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			51.6	ug/l	50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>			47.5	ug/l	50.0		94.9	70-130		
<b>LCS (B2A0425-BS1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	43			ug/l	50.0		85.5	60-140		
Benzene	45			ug/l	50.0		89.6	70-130		
Bromobenzene	48			ug/l	50.0		95.9	70-130		
Bromochloromethane	47			ug/l	50.0		94.0	70-130		
Bromodichloromethane	44			ug/l	50.0		87.6	70-130		
Bromoform	47			ug/l	50.0		94.7	70-130		
Bromomethane	32			ug/l	50.0		64.6	70-130		
2-Butanone	41			ug/l	50.0		81.7	60-140		
tert-Butyl alcohol	43			ug/l	50.0		85.5	70-130		
sec-Butylbenzene	48			ug/l	50.0		95.6	70-130		
n-Butylbenzene	47			ug/l	50.0		93.2	70-130		
tert-Butylbenzene	47			ug/l	50.0		93.6	70-130		
Methyl t-butyl ether (MTBE)	43			ug/l	50.0		86.1	70-130		
Carbon Disulfide	44			ug/l	50.0		87.8	50-150		
Carbon Tetrachloride	43			ug/l	50.0		85.5	70-130		
Chlorobenzene	45			ug/l	50.0		89.6	70-130		
Chloroethane	49			ug/l	50.0		97.7	70-130		
Chloroform	42			ug/l	50.0		83.8	70-130		
Chloromethane	58			ug/l	50.0		116	70-130		
4-Chlorotoluene	45			ug/l	50.0		89.2	70-130		
2-Chlorotoluene	45			ug/l	50.0		89.4	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	43			ug/l	50.0		86.3	70-130		
Dibromochloromethane	46			ug/l	50.0		91.9	70-130		
1,2-Dibromoethane (EDB)	45			ug/l	50.0		89.3	70-130		
Dibromomethane	43			ug/l	50.0		86.6	70-130		
1,2-Dichlorobenzene	47			ug/l	50.0		93.7	70-130		
1,3-Dichlorobenzene	47			ug/l	50.0		93.1	70-130		
1,4-Dichlorobenzene	46			ug/l	50.0		92.0	70-130		
1,1-Dichloroethane	44			ug/l	50.0		88.4	70-130		
1,2-Dichloroethane	43			ug/l	50.0		86.0	70-130		
trans-1,2-Dichloroethene	46			ug/l	50.0		91.3	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS (B2A0425-BS1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
cis-1,2-Dichloroethene	41			ug/l	50.0		82.7	70-130		
1,1-Dichloroethene	45			ug/l	50.0		90.7	70-130		
1,2-Dichloropropane	43			ug/l	50.0		86.1	70-130		
2,2-Dichloropropane	49			ug/l	50.0		97.4	70-130		
cis-1,3-Dichloropropene	44			ug/l	50.0		88.6	70-130		
trans-1,3-Dichloropropene	44			ug/l	50.0		88.7	70-130		
1,1-Dichloropropene	51			ug/l	50.0		102	70-130		
Diethyl ether	42			ug/l	50.0		83.4	70-130		
1,4-Dioxane	223			ug/l	250		89.0	50-150		
Ethylbenzene	45			ug/l	50.0		90.1	70-130		
Hexachlorobutadiene	53			ug/l	50.0		106	70-130		
2-Hexanone	41			ug/l	50.0		81.8	70-130		
Isopropylbenzene	47			ug/l	50.0		93.1	70-130		
p-Isopropyltoluene	47			ug/l	50.0		94.0	70-130		
Methylene Chloride	44			ug/l	50.0		88.5	70-130		
4-Methyl-2-pentanone	42			ug/l	50.0		84.9	70-130		
Naphthalene	43			ug/l	50.0		86.1	70-130		
n-Propylbenzene	46			ug/l	50.0		92.1	70-130		
Styrene	46			ug/l	50.0		92.3	70-130		
1,1,1,2-Tetrachloroethane	46			ug/l	50.0		92.0	70-130		
Tetrachloroethene	49			ug/l	50.0		97.7	70-130		
Tetrahydrofuran	42			ug/l	50.0		84.9	50-150		
Toluene	43			ug/l	50.0		86.0	70-130		
1,2,4-Trichlorobenzene	48			ug/l	50.0		97.0	70-130		
1,2,3-Trichlorobenzene	46			ug/l	50.0		91.9	70-130		
1,1,2-Trichloroethane	43			ug/l	50.0		86.2	70-130		
1,1,1-Trichloroethane	46			ug/l	50.0		91.3	70-130		
Trichloroethene	40			ug/l	50.0		81.0	70-130		
1,2,3-Trichloropropane	42			ug/l	50.0		83.3	70-130		
1,3,5-Trimethylbenzene	46			ug/l	50.0		92.0	70-130		
1,2,4-Trimethylbenzene	46			ug/l	50.0		91.7	70-130		
Vinyl Chloride	54			ug/l	50.0		108	70-130		
o-Xylene	47			ug/l	50.0		93.2	70-130		
m&p-Xylene	92			ug/l	100		91.5	70-130		
1,1,2,2-Tetrachloroethane	42			ug/l	50.0		84.0	70-130		
tert-Amyl methyl ether	44			ug/l	50.0		87.0	70-130		
1,3-Dichloropropane	43			ug/l	50.0		86.6	70-130		
Ethyl tert-butyl ether	44			ug/l	50.0		88.1	70-130		
Trichlorofluoromethane	46			ug/l	50.0		91.1	70-130		
Dichlorodifluoromethane	71			ug/l	50.0		143	70-130		
<hr/>										
Surrogate: 4-Bromofluorobenzene			48.2	ug/l	50.0		96.5	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.5	ug/l	50.0		107	70-130		
Surrogate: Toluene-d8			48.7	ug/l	50.0		97.3	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B2A0425-BSD1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	43			ug/l	50.0		86.4	60-140	1.05	20
Benzene	44			ug/l	50.0		87.2	70-130	2.71	20
Bromobenzene	47			ug/l	50.0		94.8	70-130	1.13	20
Bromochloromethane	44			ug/l	50.0		88.8	70-130	5.69	20
Bromodichloromethane	43			ug/l	50.0		86.7	70-130	1.12	20
Bromoform	48			ug/l	50.0		96.2	70-130	1.63	20
Bromomethane	37			ug/l	50.0		74.4	70-130	14.0	20
2-Butanone	41			ug/l	50.0		81.5	60-140	0.319	20
tert-Butyl alcohol	40			ug/l	50.0		80.8	70-130	5.70	20
sec-Butylbenzene	47			ug/l	50.0		93.3	70-130	2.41	20
n-Butylbenzene	44			ug/l	50.0		88.2	70-130	5.54	20
tert-Butylbenzene	46			ug/l	50.0		91.8	70-130	1.90	20
Methyl t-butyl ether (MTBE)	43			ug/l	50.0		85.6	70-130	0.606	20
Carbon Disulfide	43			ug/l	50.0		85.0	50-150	3.24	20
Carbon Tetrachloride	42			ug/l	50.0		85.0	70-130	0.634	20
Chlorobenzene	44			ug/l	50.0		88.2	70-130	1.55	20
Chloroethane	51			ug/l	50.0		102	70-130	3.79	20
Chloroform	42			ug/l	50.0		83.8	70-130	0.0477	20
Chloromethane	57			ug/l	50.0		113	70-130	2.62	20
4-Chlorotoluene	44			ug/l	50.0		87.6	70-130	1.81	20
2-Chlorotoluene	44			ug/l	50.0		87.7	70-130	1.94	20
1,2-Dibromo-3-chloropropane (DBCP)	42			ug/l	50.0		84.3	70-130	2.35	20
Dibromochloromethane	45			ug/l	50.0		90.5	70-130	1.49	20
1,2-Dibromoethane (EDB)	44			ug/l	50.0		88.3	70-130	1.19	20
Dibromomethane	44			ug/l	50.0		87.8	70-130	1.33	20
1,2-Dichlorobenzene	45			ug/l	50.0		89.1	70-130	4.97	20
1,3-Dichlorobenzene	46			ug/l	50.0		91.6	70-130	1.60	20
1,4-Dichlorobenzene	44			ug/l	50.0		88.2	70-130	4.31	20
1,1-Dichloroethane	43			ug/l	50.0		86.6	70-130	2.03	20
1,2-Dichloroethane	42			ug/l	50.0		84.6	70-130	1.62	20
trans-1,2-Dichloroethene	45			ug/l	50.0		89.1	70-130	2.40	20
cis-1,2-Dichloroethene	41			ug/l	50.0		82.4	70-130	0.412	20
1,1-Dichloroethene	44			ug/l	50.0		87.4	70-130	3.70	20
1,2-Dichloropropane	43			ug/l	50.0		86.8	70-130	0.856	20
2,2-Dichloropropane	48			ug/l	50.0		96.4	70-130	1.09	20
cis-1,3-Dichloropropene	44			ug/l	50.0		87.8	70-130	0.907	20
trans-1,3-Dichloropropene	44			ug/l	50.0		87.9	70-130	0.815	20
1,1-Dichloropropene	50			ug/l	50.0		100	70-130	1.93	20
Diethyl ether	42			ug/l	50.0		83.2	70-130	0.192	20
1,4-Dioxane	216			ug/l	250		86.2	50-150	3.21	20
Ethylbenzene	44			ug/l	50.0		88.5	70-130	1.77	20
Hexachlorobutadiene	50			ug/l	50.0		99.6	70-130	5.94	20
2-Hexanone	41			ug/l	50.0		82.5	70-130	0.803	20
Isopropylbenzene	46			ug/l	50.0		91.9	70-130	1.25	20
p-Isopropyltoluene	46			ug/l	50.0		92.5	70-130	1.59	20
Methylene Chloride	43			ug/l	50.0		86.4	70-130	2.47	20
4-Methyl-2-pentanone	42			ug/l	50.0		83.2	70-130	2.05	20
Naphthalene	41			ug/l	50.0		81.8	70-130	5.12	20
n-Propylbenzene	45			ug/l	50.0		90.4	70-130	1.88	20
Styrene	46			ug/l	50.0		91.9	70-130	0.347	20
1,1,1,2-Tetrachloroethane	46			ug/l	50.0		92.0	70-130	0.0652	20
Tetrachloroethene	47			ug/l	50.0		94.9	70-130	2.91	20
Tetrahydrofuran	40			ug/l	50.0		80.8	50-150	5.02	20
Toluene	42			ug/l	50.0		84.6	70-130	1.62	20
1,2,4-Trichlorobenzene	46			ug/l	50.0		92.1	70-130	5.10	20
1,2,3-Trichlorobenzene	43			ug/l	50.0		86.3	70-130	6.29	20
1,1,2-Trichloroethane	42			ug/l	50.0		85.0	70-130	1.46	20

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B2A0425-BSD1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
1,1,1-Trichloroethane	45			ug/l	50.0		90.4	70-130	0.990	20
Trichloroethene	41			ug/l	50.0		81.4	70-130	0.542	20
1,2,3-Trichloropropane	42			ug/l	50.0		83.2	70-130	0.144	20
1,3,5-Trimethylbenzene	45			ug/l	50.0		89.2	70-130	3.05	20
1,2,4-Trimethylbenzene	45			ug/l	50.0		90.2	70-130	1.56	20
Vinyl Chloride	54			ug/l	50.0		107	70-130	0.724	20
o-Xylene	45			ug/l	50.0		90.6	70-130	2.85	20
m&p-Xylene	90			ug/l	100		89.6	70-130	2.16	20
1,1,2,2-Tetrachloroethane	41			ug/l	50.0		82.5	70-130	1.80	20
tert-Amyl methyl ether	44			ug/l	50.0		87.1	70-130	0.0459	20
1,3-Dichloropropane	43			ug/l	50.0		85.1	70-130	1.79	20
Ethyl tert-butyl ether	43			ug/l	50.0		86.4	70-130	1.93	20
Trichlorofluoromethane	44			ug/l	50.0		88.7	70-130	2.67	20
Dichlorodifluoromethane	68			ug/l	50.0		136	70-130	5.19	20
-----										
Surrogate: 4-Bromofluorobenzene			49.1	ug/l	50.0		98.2	70-130		
Surrogate: 1,2-Dichloroethane-d4			55.2	ug/l	50.0		110	70-130		
Surrogate: Toluene-d8			48.5	ug/l	50.0		97.0	70-130		

## Notes and Definitions

<b>Item</b>	<b>Definition</b>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.





2 A 1 0079 0

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION							PRESERVATIVE	TESTS**		REMARKS
53977		1144 Eddy St. Providence, RI		AQUEOUS	SOIL	OTHER	NO OF CONTAINERS	VOCs				
CLIENT												
SAGE Environmental, Inc.												
REPORT TO: sage@sage-enviro.com												
INVOICE TO:												
DATE	TIME	COMP	GRAB	SAMPLE I.D.								
1-10-22	11:15		X	SE-301 (MW)	X		3	HCLY	X			
1-10-22	12:35		X	SE-302 (MW)	X				X			

Sampled by: (Signature) <i>But...</i>	Date/Time 1-10-22 13:10	Received by: (Signature)	Date/Time	Laboratory Remarks: Temp. received: _____ Cooled <input checked="" type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements: <b>RIDEM</b> <b>GB GW obj.</b>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
Relinquished by: (Signature) <i>But...</i>	Date/Time 1-10-22 15:40	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 1/10 1540		
				Turnaround (Business Days)	<b>48 hour</b>

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

DL

## **ATTACHMENT 2**


Bona Fide Prospective Purchaser Certification Statement

1144 Eddy Street, LLC hereby represents and certifies to the Rhode Island Department of Environmental Management ("Department") that:

1. 1144 Eddy Street, LLC intends to purchase the Site (the term "Site" shall be used herein as that term is defined in Rhode Island General Laws Section 23-19.14-3(n)) and that the Site is contaminated with hazardous materials;
2. 1144 Eddy Street, LLC has documented its intent to purchase the Site in writing to the Department;
3. 1144 Eddy Street, LLC has offered to pay fair market value for the Site in its contaminated state;
4. 1144 Eddy Street, LLC is not an owner or former owner of the Site or any part of the Site;
5. 1144 Eddy Street, LLC is not an operator, former operator or otherwise responsible for the operation of any activities on the Site;
6. 1144 Eddy Street, LLC is not otherwise a responsible party as that term is defined in Rhode Island General Laws Section 23-19.14-3(m); and
7. 1144 Eddy Street, LLC does not have more than a ten percent (10%) equitable or other legal interest in the Site or any of the operations related to the contamination at the Site.

It is so agreed:

By:

  
1144 Eddy Street, LLC \_\_\_\_\_ Date 3/25/2022  
By: Joseph R. Poolino, Jr., Authorized Member

In reliance upon these representations by 1144 Eddy Street, LLC to the Department, the Department has determined that 1144 Eddy Street, LLC is a *bona fide* prospective purchaser of 1144 Eddy Street of Providence, Plat 57, Lot 291.

State of Rhode Island  
Department of Environmental Management

By:

Leo Hellested Digitally signed by Leo Hellested  
DEM Representative Date: 2022.04.01 13:19:22 -04'00' \_\_\_\_\_  
Date

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## RHODE ISLAND

### DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF LAND REVITALIZATION & SUSTAINABLE MATERIALS MANAGEMENT

235 Promenade Street, Providence, Rhode Island 02908

#### LETTER OF RESPONSIBILITY

File No. SR-28-2076

April 11, 2023

#### CERTIFIED MAIL

Ms. Mary Birsic  
1144 Eddy Street LLC  
100 Westminster Street  
Providence, RI 02903

RE: Former Federal Products Corp.  
1144 Eddy Street  
Providence, Rhode Island  
Plat Map 57 / Lot 291

Dear Ms. Birsic:

On April 22, 2020, the Rhode Island Department of Environmental Management's (the Department) Office of Land Revitalization and Sustainable Materials Management (LRSMM) enacted the codified 250-RICR-140-30-1, Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation, and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in a timely and cost-effective manner. A Letter of Responsibility (LOR) is a preliminary document used by the Department to codify and define the relationship between the Department and a Performing Party.

Please be advised of the following facts:

1. The above referenced property is located at 1144 Eddy Street, Providence, Rhode Island (the Site). The Site is further identified by the City of Providence Tax Assessor's Office as Plat Map 57 / Lot 291.
2. The Department is in receipt of the following documents:
  - a. Release Notification, received by the Department on March 25, 2022, and prepared by SAGE Environmental, Inc. (SAGE);
  - b. Bona Fide Prospective Purchaser Certification Statement, received by the Department on March 25, 2022, and prepared by 1144 Eddy Street LLC; and
  - c. Revised Release Notification, received by the Department on March 28, 2022, and prepared by SAGE.

3. The above referenced documents identify concentrations of polycyclic aromatic hydrocarbons (PAHs), arsenic, and beryllium in Site soils that exceed the Department's Method 1 Direct Exposure Criteria, as referenced in the Remediation Regulations. The above referenced documents also identify concentrations of volatile organic compounds (VOCs) in the Site groundwater that exceeds the Department's GA Groundwater Objectives. Additionally, the above referenced documents also identify elevated levels of VOCs in sub-slab soil gas and indoor air.
4. Based on the presence and nature of these Hazardous Substances, the Department concurs that a Release of Hazardous Materials has occurred as defined by Sections 1.4(A)(33), 1.4(A)(34), and 1.4(A)(63) of the Remediation Regulations.
5. 1144 Eddy Street LLC is identified as the current owner of the Site by the City of Providence Tax Assessor's office and as such is a Responsible Party as defined by Section 1.4(A)(70) of the Remediation Regulations.

As a result of the information known and the conditions observed at the site, the Department requests that 1144 Eddy Street LLC comply with the following:

1. If necessary, prior to the implementation of any additional site investigation field activities and in accordance with Section 1.8.7(A)(1) of the Remediation Regulations, 1144 Eddy Street LLC must notify all abutting property owners, tenants, easement holders, and the municipality that an investigation is about to occur. The notice should briefly indicate the purpose of the investigation, the work to be performed, and the approximate scheduled dates of activities. Please submit a draft notification to the Department via E-mail for review and approval prior to distribution. A boilerplate notification to be distributed can be found online at: <https://dem.ri.gov/environmental-protection-bureau/land-revitalization-and-sustainable-materials-management/state-4>.

The Department will require a copy of the public notice letter and a list of all recipients. Failure to comply with the aforementioned items may result in enforcement actions as specified in Rhode Island General Laws 23-19.1-17 and 23-19.1-18.

2. Ensure that the requirements of Rhode Island General Law (RIGL), Title 23, *Health and Safety*, Chapter 23-19.14, *Industrial Property Remediation and Reuse Act*, Section 23-19.14-5, *Environmental Equity and Public Participation*, have been fulfilled. A copy of this section of the RIGL and an outline highlighting the requirements to be performed by the Performing Party under this policy have been attached for your reference. Please note that all materials issued, as part of public notice will be required to be distributed in English and in the predominant language of the area surrounding the Site. Environmental Justice Area public notice requirements and documents to be distributed can be found online at <https://dem.ri.gov/environmental-protection-bureau/land-revitalization-and-sustainable-materials-management/environment-justice>.
3. Ensure that the requirements of Rhode Island General Law (RIGL), Title 23,

*Health and Safety*, Chapter 23-19.14, *Industrial Property Remediation and Reuse Act*, Section 23-19.14-5, *Environmental Equity and Public Participation*, have been fulfilled. A copy of this section of the RIGL has been attached for your reference. In accordance with the *Industrial Property Remediation and Reuse Act*, prior to the establishment of a final scope of investigation for the Site, and after the completion of All Appropriate Inquiries (AAI), hold a public meeting for the purposes of obtaining information about conditions at the Site and the environmental history at the Site that may be useful in establishing the scope of the investigation and/or establishing the objectives for the environmental clean-up of the Site.

- a. The public meeting shall be held in the City or Town in which the Site is located.
- b. Public notice shall be given of the meeting at least ten (10) business days prior to the meeting.
- c. Following the meeting, the record of the meeting shall be open for a period of not less than ten (10) and not more than twenty (20) business days for the receipt of public comment.
- d. The results of all appropriate inquiries, analysis and the public meeting, including the comment period and responses to all comments received, shall be documented in a written report submitted to the Department.

No work (remediation or construction) shall be permitted at the property until the public meeting and comment period regarding the Site's proposed reuse has closed. The above detailed required public notice, meeting and comment period shall be in addition to any other requirements for public notice and comment relating to the investigation or remedy of the Site and may be part of another meeting pertaining to the Site provided that the minimum standards established by RIGL Section 23-19.14-5 for notice and comment are met.

4. Additionally, ensure that the requirements of RIGL Title 23, *Health and Safety*, Chapter 23-19.14, *Industrial Property Remediation and Reuse Act*, Section 23-19.14-4, *Objectives of Environmental Clean-Up* have been met. A copy of this section of the RIGL has been attached for your reference. The requirements of the Objectives of Environmental Clean-Up statute, include, but are not limited to the following:

- a. Thirty (30) days prior to final selection of the location for construction or leasing the building, the project sponsor must complete the following public notice requirements with ten (10) days prior written notice to the public of each measure:
  - I. Prepare and post on the sponsor's website that:
    - a. Projects project costs;
    - b. Projects the time period required to complete the project; and
    - c. Discusses the rationale for selecting the property.
  - II. Solicit written comments on the abovementioned report for a period of thirty (30) days and conduct a public hearing within that thirty (30) days for public comment; and
  - III. Prepare a second report summarizing and responding to the public comments received and post said second report on the sponsor's website.

- b. The site investigation shall include analysis for the chemicals of potential concern for vapor intrusion. The list of chemicals of potential concern for vapor intrusion is attached for your reference;
  - c. Remediate the soils where chemicals of potential concern for vapor intrusion or petroleum exceed the residential direct exposure criteria through the physical removal of said chemicals or petroleum through excavation or in situ treatment; and
  - d. Equip the school building with both a passive sub slab ventilation system capable of conversion to an active system and a vapor barrier beneath the school building or incorporated in the concrete slab, all in compliance with an approved Department Remedial Action Work Plan (RAWP) and completed prior to the occupancy of the school;
5. Conduct further investigation of the Site soil and groundwater, if warranted, in accordance with Section 1.8 of the Remediation Regulations.
6. Upon completion of the additional site investigation submit a Site Investigation Report (SIR) in accordance with Section 1.8 of the Remediation Regulations within ninety (90) days from the date of this letter. Given that some limited environmental investigation has already been performed at the Site, you may incorporate portions of the information already gathered and work already performed to address the items covered in Section 1.8. The SIR should include at least two remedial alternatives other than no action/natural attenuation and include future plans for the re-use or redevelopment (if applicable) of the property.
7. Submit an SIR checklist in accordance with Section 1.8.8 of the Remediation Regulations. The SIR checklist was created as a supplemental tool to expedite the review and approval process by cross-referencing the specific sections and pages within the SIR that provide the detailed information that addresses each stated requirement within Section 1.20 of the Remediation Regulations.
8. Upon approval by the Department of the SIR, be prepared to bring the Site into compliance with the Remediation Regulations.

Please be advised that 1144 Eddy Street LLC, as the Responsible Party, is responsible for the proper investigation and remediation of hazardous substances at this site. Also be advised that any remedial alternative that proposes to leave contaminated media on-site at levels which exceed the Department's Residential Direct Exposure Criteria, applicable Leachability Criteria, or applicable Groundwater Criteria will, at a minimum, necessitate the recording of an institutional control in the form of an Environmental Land Usage Restriction (ELUR) on the deed for the site, and will likely require implementation of additional engineered controls to restrict human exposure.

Please notify this office within seven days of the receipt of this letter of your plans to address these items. All correspondences should be sent to the attention of:

Patricia Burke  
RIDEM / Office of Land Revitalization and Sustainable Materials Management  
235 Promenade Street  
Providence, RI 02908



If you have any questions regarding this letter or would like the opportunity to meet with Department personnel, please contact me by telephone at (401) 222-2797 ext. 2777142, or by E-mail at [patricia.burke@dem.ri.gov](mailto:patricia.burke@dem.ri.gov).

Sincerely,

*Patricia Burke*

Patricia Burke  
Environmental Scientist  
Office of Land Revitalization &  
Sustainable Materials Management

cc: Kelly Owens, RIDEM/OLRSMM  
Ashley Blauvelt, RIDEM/OLRSMM  
Rachel Simpson, RIDEM/OLRSMM  
Jacob Butterworth, SAGE Environmental, Inc.

## APPENDIX D

S3977

1144 Eddy St

Providence, RI 02905

Inquiry Number: 6645822.3

September 02, 2021

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

09/02/21

**Site Name:**

S3977  
1144 Eddy St  
Providence, RI 02905  
EDR Inquiry # 6645822.3

**Client Name:**

Sage Environmental, Inc.  
172 Armistice Boulevard  
Pawtucket, RI 02860  
Contact: Elaine Cardillo



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Sage Environmental, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** CE81-463E-B478  
**PO #** NA  
**Project** S3977

**Maps Provided:**

1982  
1977  
1972  
1956  
1950  
1921  
1900



Sanborn® Library search results

Certification #: CE81-463E-B478

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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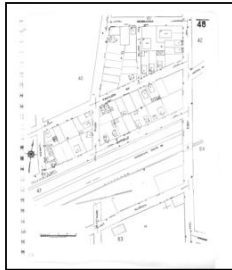
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## Sanborn Sheet Key

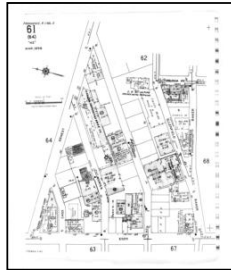
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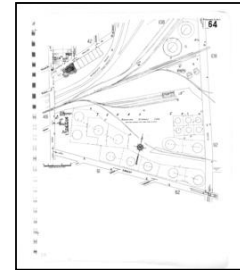
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Volume 5, Sheet 61  
1982



Volume 5, Sheet 63  
1982



Volume 5, Sheet 64  
1982

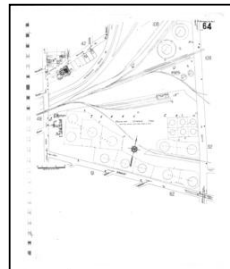
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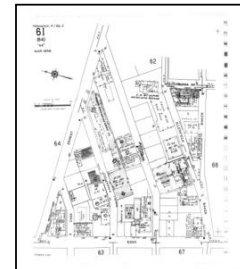
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Volume 5, Sheet 63  
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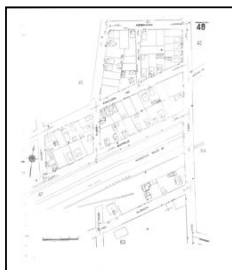


Volume 5, Sheet 64  
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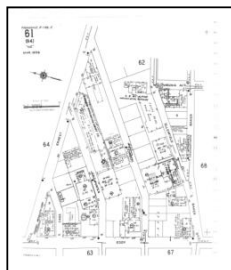


Volume 5, Sheet 61  
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### 1972 Source Sheets



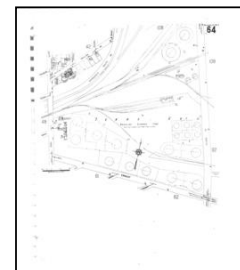
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Volume 5, Sheet 63  
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Volume 5, Sheet 64  
1972

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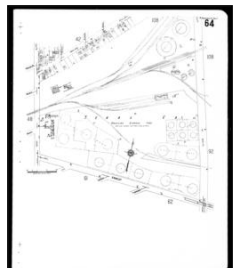
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Volume 5, Sheet 61  
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Volume 5, Sheet 63  
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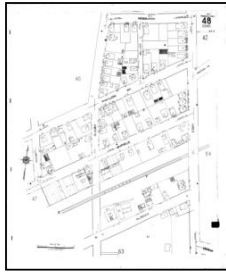
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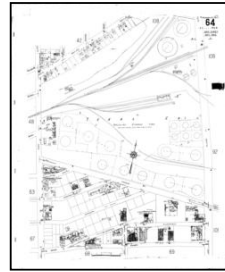
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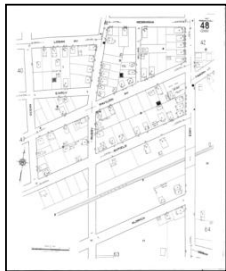


Volume 5, Sheet 63  
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Volume 5, Sheet 64  
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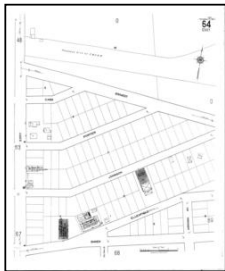
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Volume 5, Sheet 63  
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Volume 5, Sheet 64  
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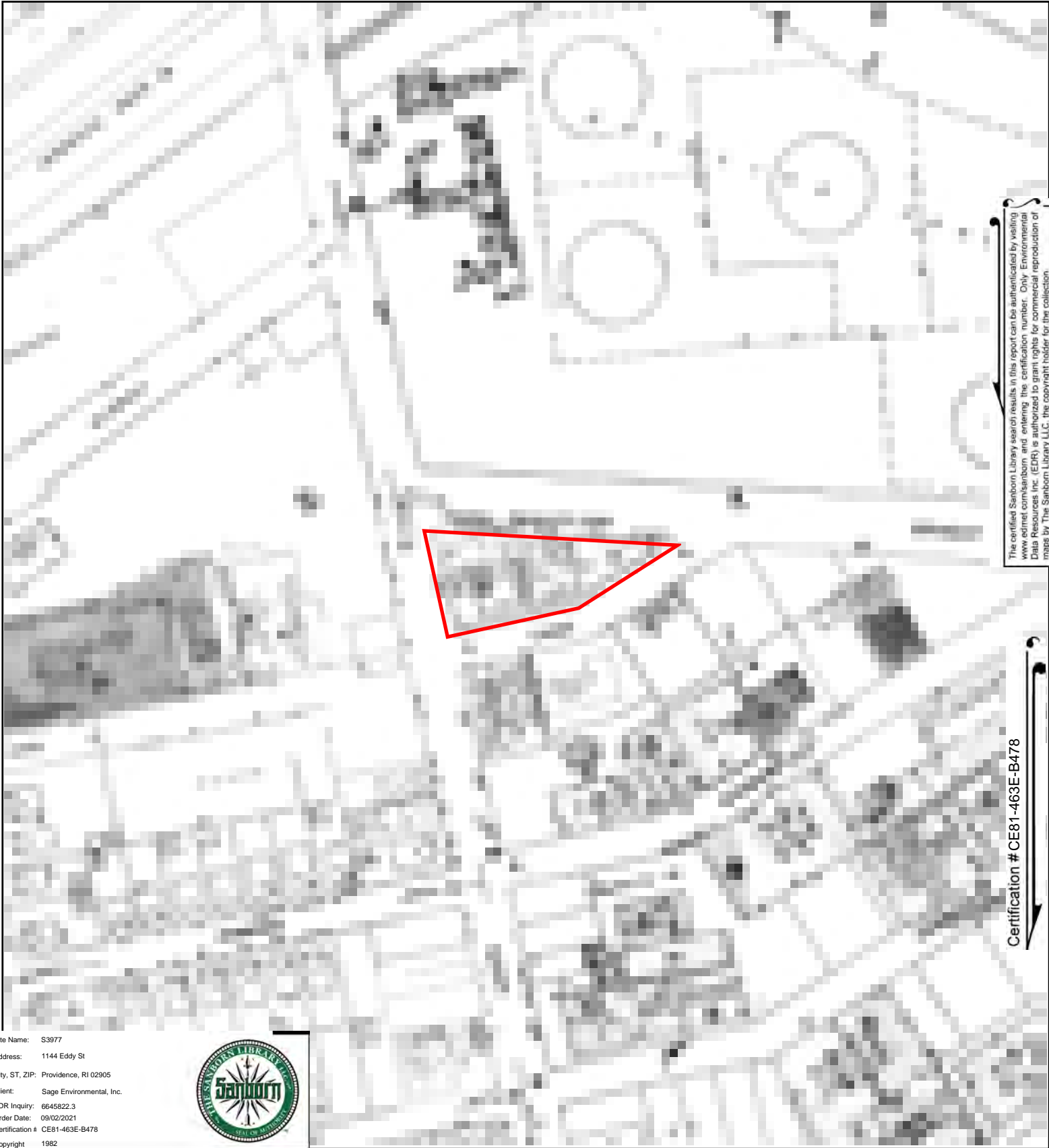
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Volume 3, Sheet 247  
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Volume 3, Sheet 248  
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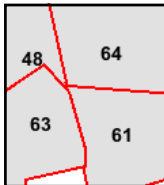
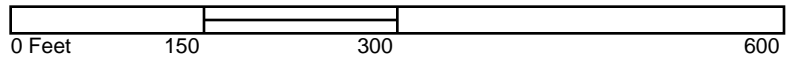
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Site Name: S3977  
 Address: 1144 Eddy St  
 City, ST, ZIP: Providence, RI 02905  
 Client: Sage Environmental, Inc.  
 EDR Inquiry: 6645822.3  
 Order Date: 09/02/2021  
 Certification # CE81-463E-B478  
 Copyright 1982

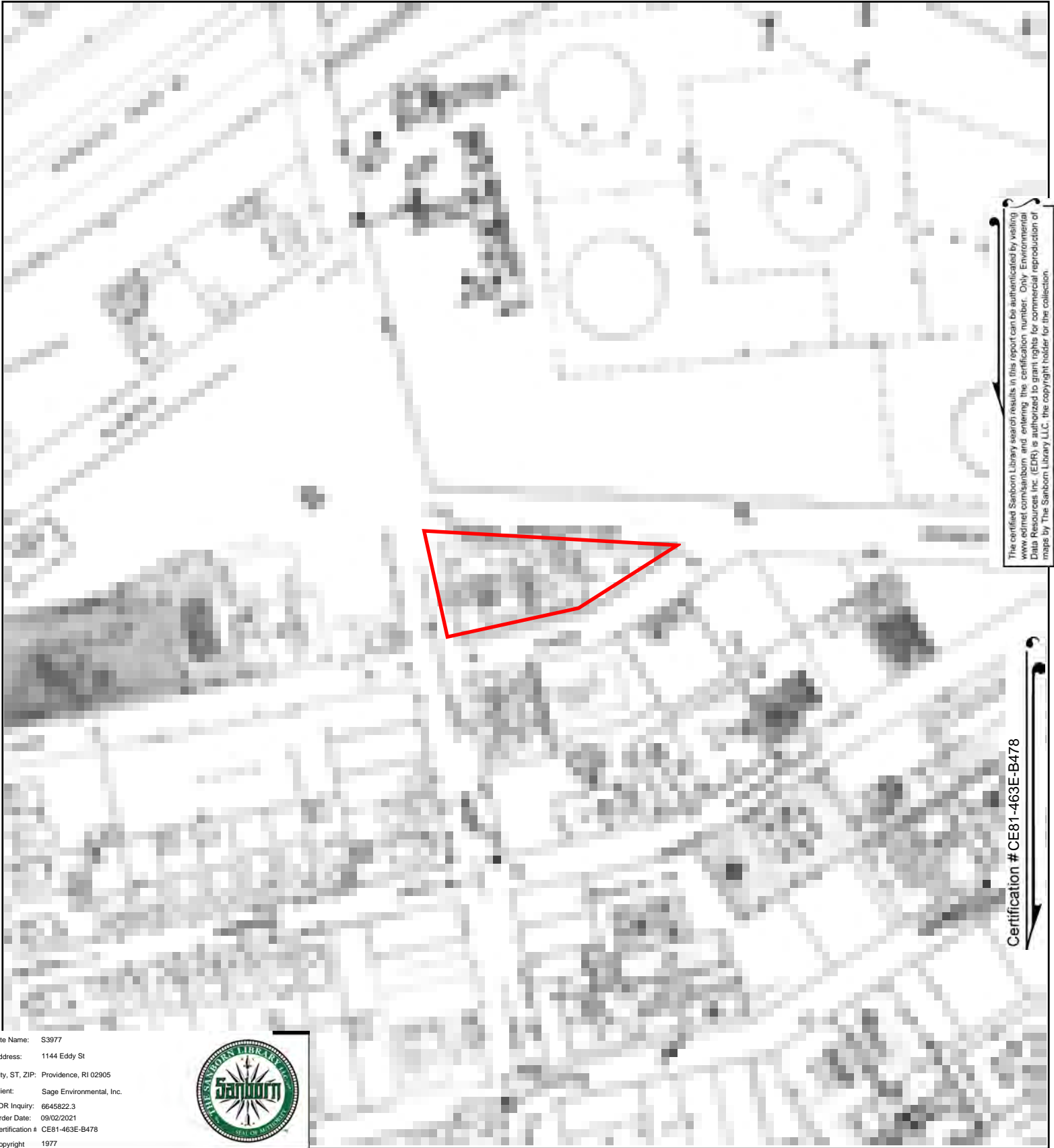


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 Volume 5, Sheet 61  
 Volume 5, Sheet 48





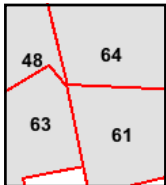
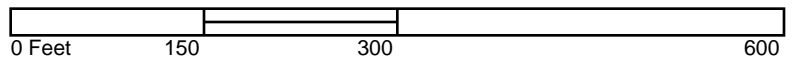
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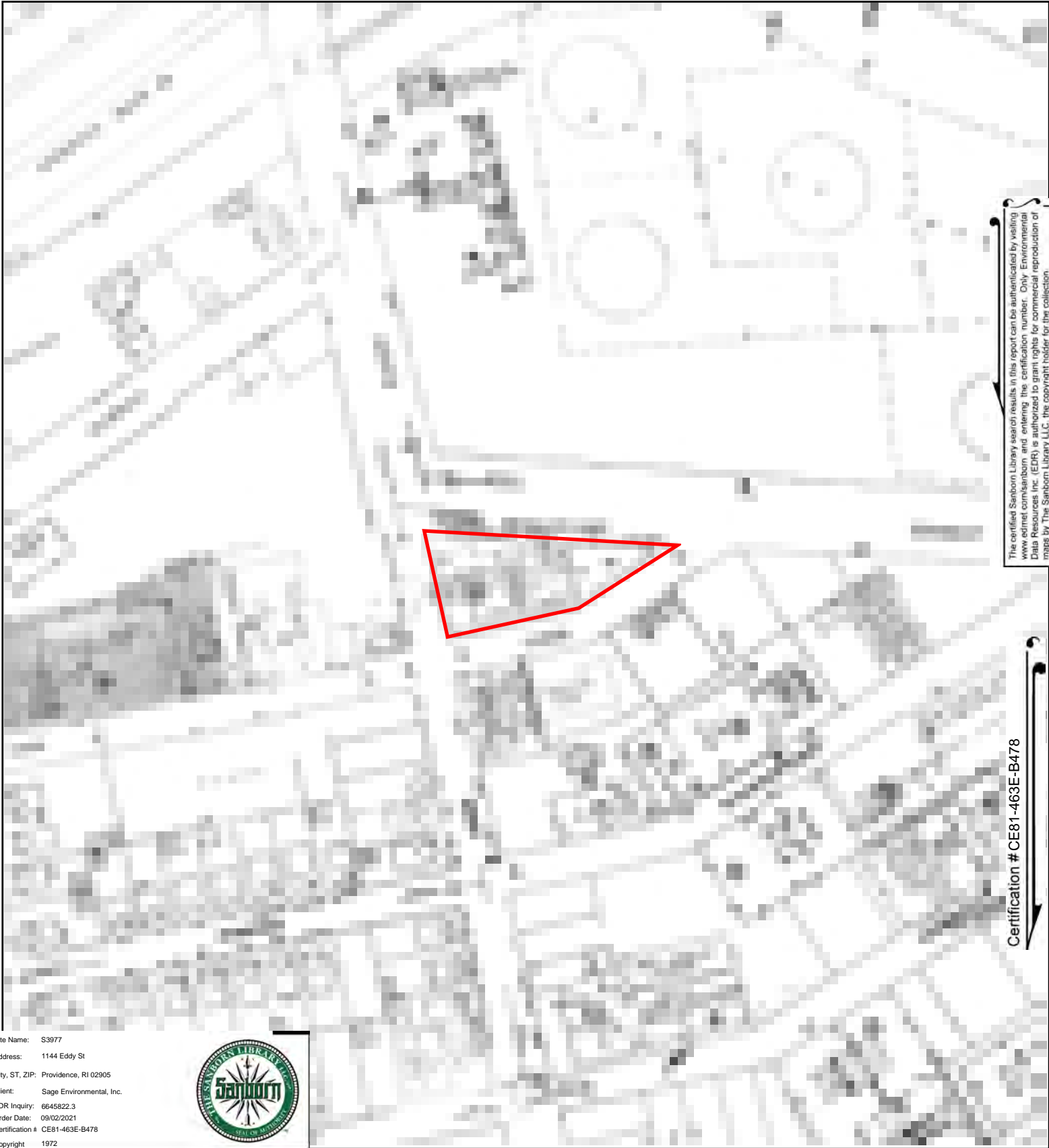
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 Volume 5, Sheet 64  
 Volume 5, Sheet 63  
 Volume 5, Sheet 48







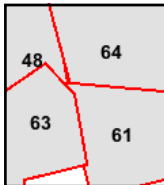
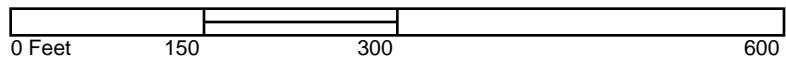
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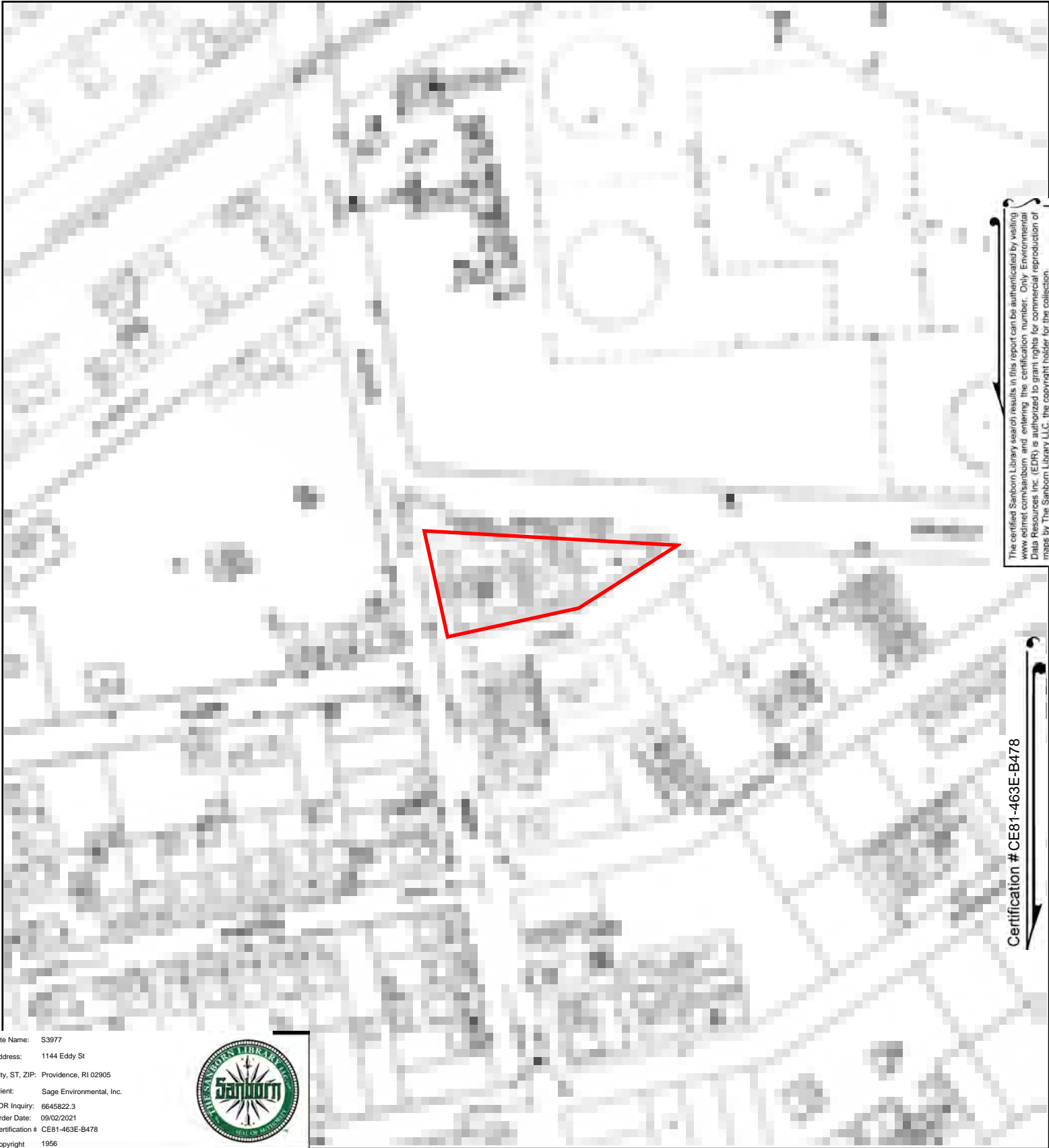


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 Volume 5, Sheet 48





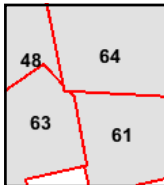
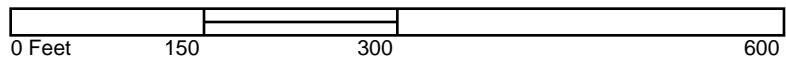
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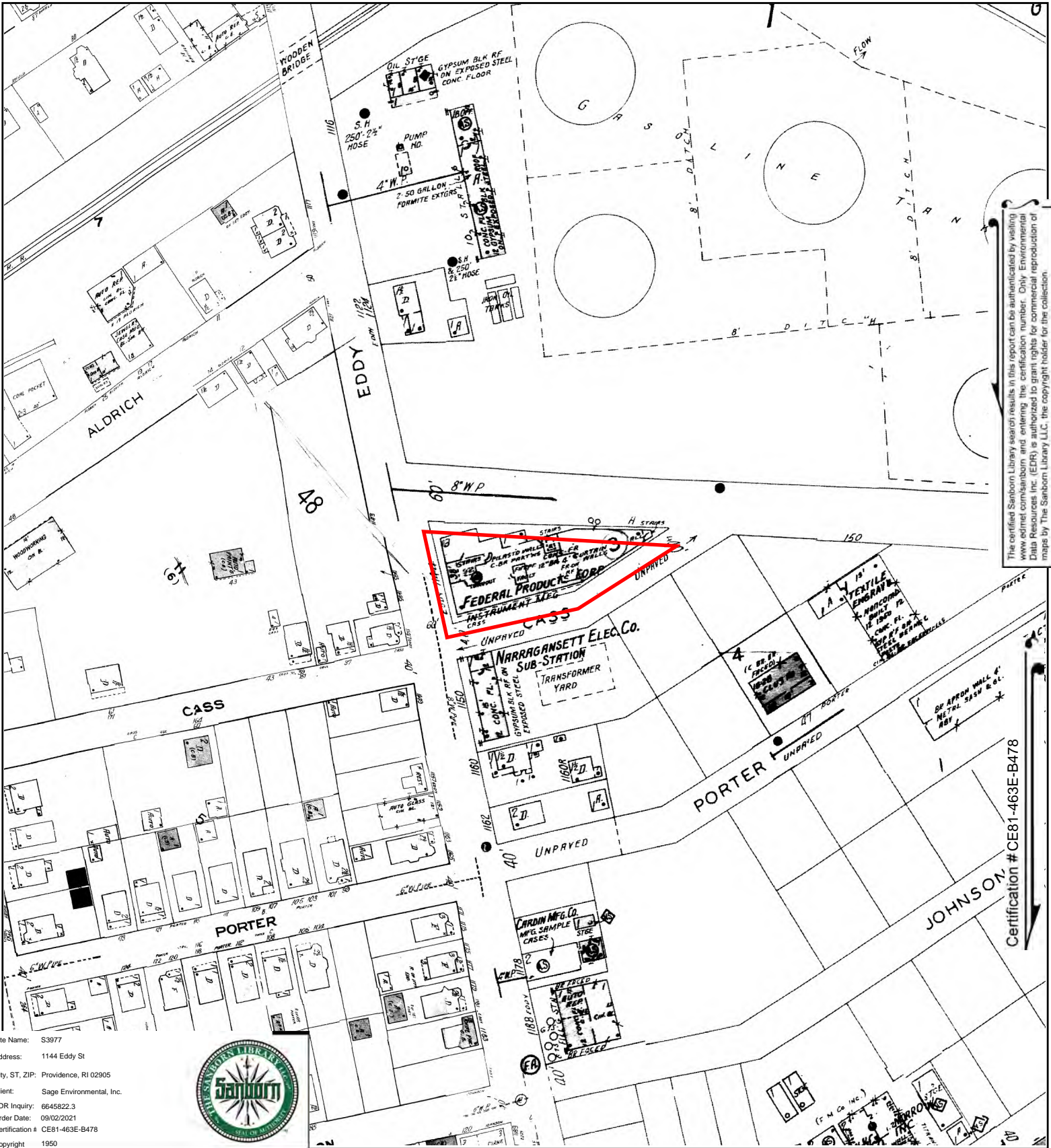


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 Volume 5, Sheet 61  
 Volume 5, Sheet 48



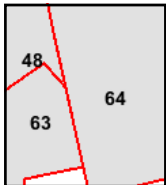
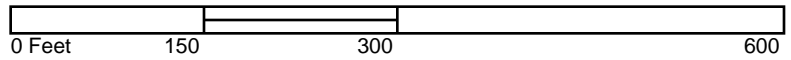


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 Order Date: 09/02/2021  
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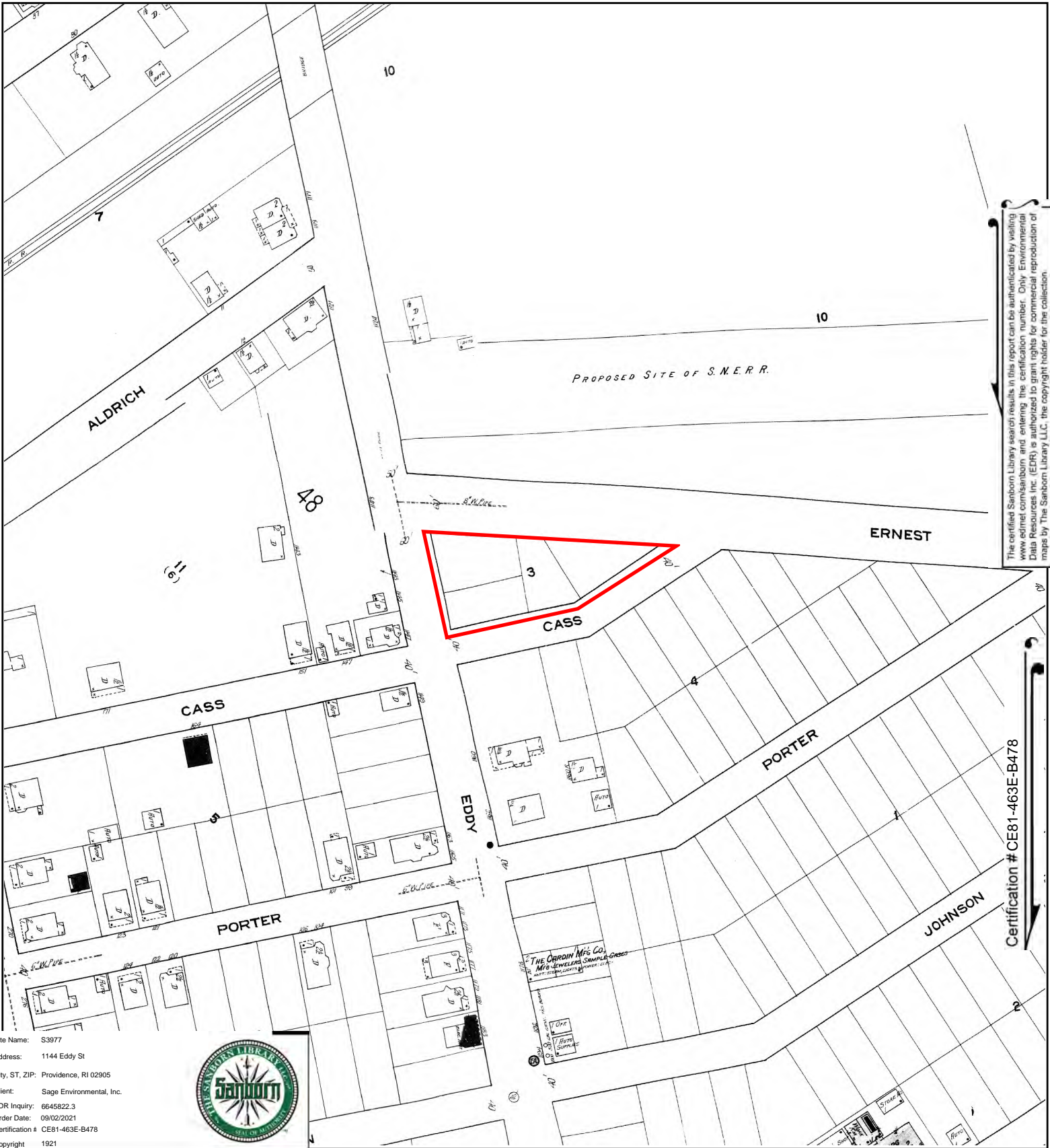
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 Volume 5, Sheet 48







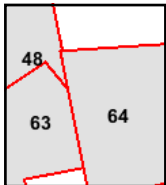
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 EDR Inquiry: 6645822.3  
 Order Date: 09/02/2021  
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 Copyright: 1921

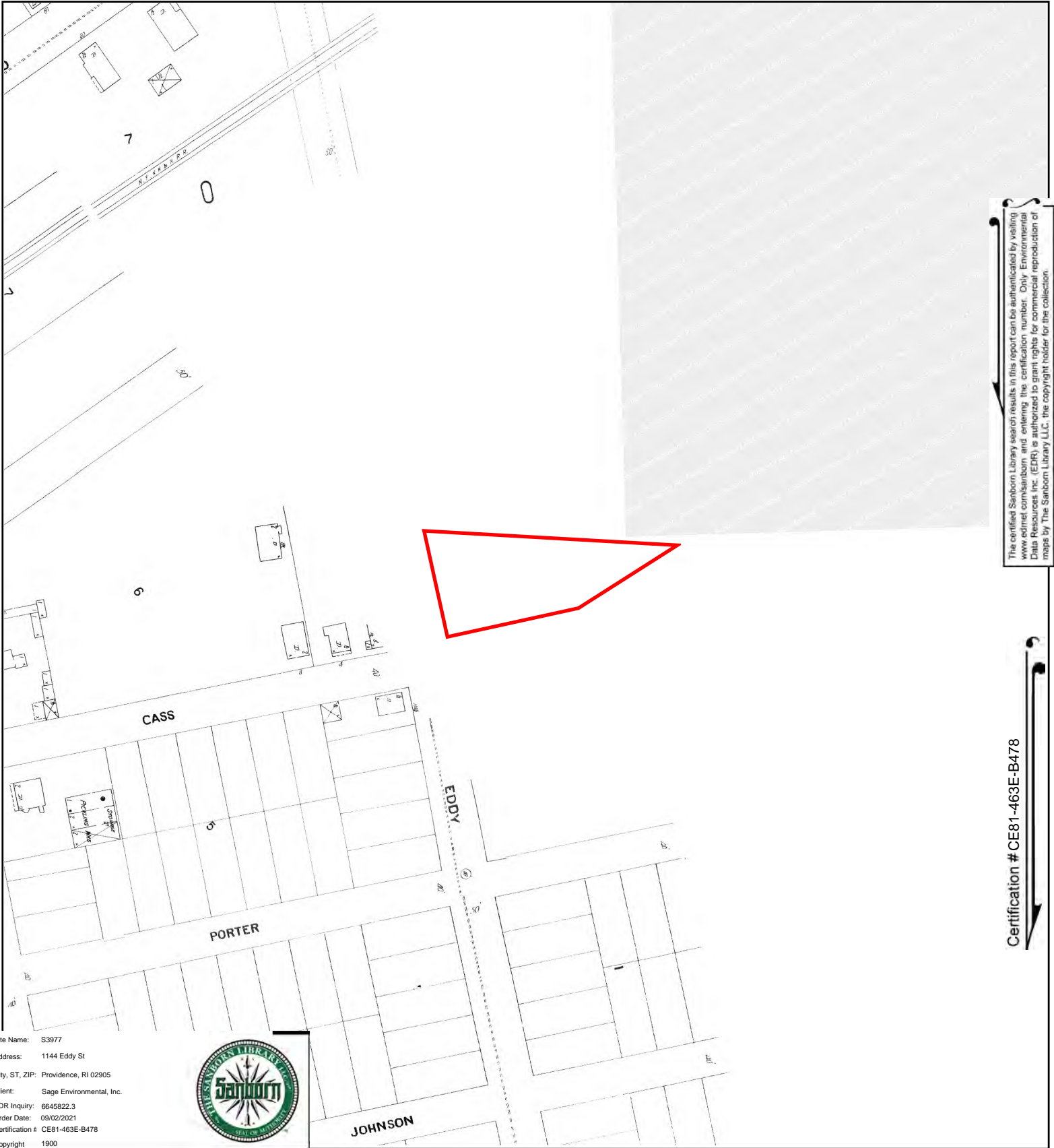


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 Volume 5, Sheet 63  
 Volume 5, Sheet 48





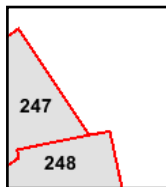
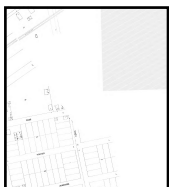
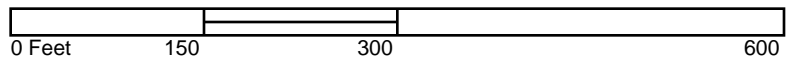
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Volume 3, Sheet 248  
 Volume 3, Sheet 247



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Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1939



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1951-1952



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1962

Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1972

Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island





Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1985

Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



1997



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



2003



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



2008



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



2011



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



2014



Historical Site Aerials  
1144 Eddy Street, Providence, Rhode Island



2018

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**S3977**

1144 Eddy St  
Providence, RI 02905

Inquiry Number: 6645822.5  
September 09, 2021

# The EDR-City Directory Image Report

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*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1988	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1983	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1978	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1974	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1969	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1964	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1961	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1957	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1950	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1944	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1938	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory

## EXECUTIVE SUMMARY

Year      Target Street      Cross Street      Source

## FINDINGS

### TARGET PROPERTY STREET

1144 Eddy St  
Providence, RI 02905

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### EDDY ST

2017	pg A1	EDR Digital Archive
2014	pg A3	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2005	pg A7	EDR Digital Archive
2000	pg A9	EDR Digital Archive
1995	pg A11	EDR Digital Archive
1992	pg A13	EDR Digital Archive
1988	pg A15	Polk's City Directory
1983	pg A17	Polk's City Directory
1978	pg A20	Polk's City Directory
1974	pg A22	Polk's City Directory
1969	pg A24	Polk's City Directory
1964	pg A26	Polk's City Directory
1961	pg A28	Polk's City Directory
1957	pg A30	Polk's City Directory
1950	pg A32	Polk's City Directory
1950	pg A33	Polk's City Directory
1944	pg A35	Polk's City Directory
1938	pg A37	Polk's City Directory
1938	pg A38	Polk's City Directory



## FINDINGS

### CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### ERNEST ST

2017	pg. A2	EDR Digital Archive
2014	pg. A4	EDR Digital Archive
2010	pg. A6	EDR Digital Archive
2005	pg. A8	EDR Digital Archive
2000	pg. A10	EDR Digital Archive
1995	pg. A12	EDR Digital Archive
1992	pg. A14	EDR Digital Archive
1988	pg. A16	Polk's City Directory
1983	pg. A18	Polk's City Directory
1983	pg. A19	Polk's City Directory
1978	pg. A21	Polk's City Directory
1974	pg. A23	Polk's City Directory
1969	pg. A25	Polk's City Directory
1964	pg. A27	Polk's City Directory
1961	pg. A29	Polk's City Directory
1957	pg. A31	Polk's City Directory
1950	pg. A34	Polk's City Directory
1944	pg. A36	Polk's City Directory
1938	pg. A39	Polk's City Directory

## **City Directory Images**

**EDDY ST 2017**

1078 URENA, CARLOS  
1090 GDS CLEANING SOLUTIONS INC  
1095 EL PRINCIPE RESTAURANT  
1120 KITCHEN & COUNTERTOP CENTER OF NEW E  
THE COUNTERTOP STORE  
1144 FEDERAL PRODUCTS CORP AN ESTERLINE C  
1157 PROVIDENCE HOUSE LOCKSMITH  
1159 COUNTRY TIRE SHOP  
1165 PREBOT, EDDY  
1203 CAMMACHO, WENDY  
VARGAS, RANDOLFO J

**ERNEST ST 2017**

2	STATE OF RHODE ISLAND
60	THE CITY OF PROVIDENCE TRAFFIC ENGIN
70	CONTROLLER SERV & SALES CO
125	QUINLAN COMPANIES
130	FERGUSON PERFORATING & WIRE CO
150	CARROLL COATINGS COMPANY INC

**EDDY ST 2014**

1076 MOREIRA, ARTHUR A  
1078 MANGUM, DENISE  
MATOS, JENNIFER  
PAVILLA, JEAN  
THEN, FRANKLIN  
1095 EL PRINCIPE RESTAURANT  
1100 MENDEZ, CARLOS  
1120 COUNTERTOP STORE THE  
KITCHEN & COUNTERTOP CENTER OF NE LL  
1144 FEDERAL PRODUCTS CORP AN ESTERLINE C  
MAHR FEDERAL INC  
1155 PREBOT, EDDY  
1157 PROVIDENCE HOUSE LOCKSMITH  
1159 COUNTRY TIRE SHOP  
1163 SANCHEZ, JOSE F  
1199 COTTON, ANDREW  
SCHAP, LIBBY  
WOOD, PATRICK W  
1203 CAMMACHO, WENDY  
VARGAS, RANDOLFO J

**ERNEST ST 2014**

- 1 MARR SCAFFOLDING CO
- 60 THE CITY OF PROVIDENCE TRAFFIC ENGIN
- 70 CONTROLLER SERV & SALES CO
- 125 QUINLAN COMPANIES
- 130 FERGUSON PERFORATING & WIRE CO
- 150 CARROLL COATINGS COMPANY INC

**EDDY ST 2010**

1076 JOSEPH, MICHAEL W  
MOREIRA, ARTHUR  
1078 BARROS, JAMILSON  
GONZALEZ, J  
MANGUM, DENISE  
VELEZ, GLORIA  
1090 EAST COAST SOUVENIRS  
GDS CLEANING SOLUTIONS INC  
1095 EL PRINCIPE  
1120 KITCHEN & COUNTERTOP CTR  
1144 MAHR FEDERAL INC  
1159 COUNTRY TIRE SHOP  
1163 CEPEDA, JOSE  
1165 PREBOT, EDDY  
RAVELO, IVETTE  
1183 MT SINAI PENTECOSTAL CHURCH  
1199 LAURENCE, VIRGINIA G  
1200 DIVERSIFIED PRODUCTS INC  
1203 GONZALEZ, ROSALBA  
VARGAS, RANDOLFO J

**ERNEST ST 2010**

- 1 MARR EQUIPMENT CORP
- MARR SCAFFOLDING CO
- 2 ENVIRONMENTAL MONITORING
- 20 PROVIDENCE HIGHWAY DEPT
- 60 PROVIDENCE TRAFFIC ENGINEERS
- 70 CONTROLLER SERVICE & SALES CO
- 125 QUINLAN CO
- 130 FERGUSON PERFORATING INC
- 150 CARROLL COATINGS CO INC



**EDDY ST 2005**

1076 MOREIRA, ARTHUR  
1078 THEN, FRANKLIN  
VELEZ, GLORIA  
1090 EAST COAST SOUVENIRS  
GDS CLEANING SOLUTIONS INC  
1144 BAYSIDE FEDERAL CREDIT UNION  
FEDERAL PRODUCTS CORP  
FEDERAL PRODUCTS CORP AN ESTERLINE C  
MAHR FEDERAL INC  
1157 GONCALVES, OLIVIA  
1159 COUNTRY TIRE SHOP  
1165 IVES, ROBERT W  
1199 EVANS, ADRIANNE  
JAACKS, LELA K  
LONGLEY-COOK, HESTER  
OSBORNE, DUTCH  
ROODE, BARRY T  
STEMPEL, P J  
TRISH GILMORE PHOTOGRAPHY  
1200 DIVERSIFIED PRODUCTS INC  
1203 A & V DESIGN  
REGO, JOAO M  
1218 CASH N CARRY

**ERNEST ST 2005**

- 1 MARR SCAFFOLDING CO
- 2 RHODE ISLAND NARRAGANSETT BAY COMM
- 70 CONTROLLER SERVICE & SALES CO
- 125 THE QUINLAN CO
- 130 FERGUSON PERFORMING & WIRE CO
- 150 CARROLL COATINGS CO
- SHEET METAL WORKERS LOCAL LAB

**EDDY ST 2000**

- 1076 CEPEDA, JOANA
- 1090 EAST COAST SOUVENIRS
- 1120 COUNTERTOP STORE THE
- 1144 BAYSIDE FEDERAL CREDIT UNIO  
FEDERAL PRODS INCORPORATED  
FEDERAL PRODUCTS  
FEDERAL PRODUCTS CORPORATION AN ESTERLINE COMPANY
- 1159 CESAR TIRE SHOP  
COUNTRY TIRE SHOP
- 1183 CENTRO EVANGELIST CHURCH MMM
- 1196 TRENDEX II
- 1200 DALYSSA EPOXY  
EPOXY
- 1201 ARIS JEN  
V GS JEWELRY COMPANY
- 1203 DUQUE, MANUEL
- 1218 SWEETLIFE CASH & CARRY

**ERNEST ST 2000**

- 1 MARR SCAFFOLDING COMPANY
- 2 HART ENGINEERING CORPORATION
- RHODE ISLE STAT OF NARRAGANSETT BAY WATER QUALITY MANAGEMENT
- SEAVIEW CONSTRUCTION INCORPORATED
- 50 COMMUNICATIONS GARAGE
- 60 PROVIDENCE CITY OF TRAFFIC ENGINEERS
- 70 CONTROLLER SERVICE & SALES CO
- 125 QUINLAN COMPANIES
- 130 DIETZLER CECILIA PSYCHOTHERAPIST
- FERGUSON SALES AGENCY

**EDDY ST 1995**

- 1090 G D S CLEANING  
WAVE LIGHT INC
- 1120 COUNTERTOP STORE THE
- 1144 BAYSIDE FEDERAL CREDIT UNION  
FEDERAL PRODUCTS CORP AN ESTERLINE CO  
FEDERAL PRODUCTS CORP AN ESTERLINE COMPANY
- 1159 COUNTRY TIRE SHOP
- 1183 CENTRO EVANGELIST CHURCH MMM
- 1196 J KK ASSOCIATES  
TRENDEX  
TRENDEX II  
TRENDEX II INC
- 1199 DUBORD, JENNIFER  
GINTZLER, JON  
HOLLOWAY, MICHAEL  
JAACKS, DAVID  
MAHAFFY, JAKE  
STEMPEL, P J  
VEILLEUX, NANCY
- 1203 MORALES, ELDER
- 1218 SWEETLIFE CASH & CARRY

**ERNEST ST 1995**

- 1 MARR SCAFFOLDING CO
- 2 HART ENGINEERING CORP  
UNIVERSAL ENGINEERING
- 15 SHEET METAL WORKERS UNION 17
- 50 COMMUNICATIONS GARAGE
- 60 BLACK CONTRACTORS ASSOCIATION OF RI  
PROVIDENCE CITY OF-TRAFFIC ENGINEERS
- 70 CONTROLLER SERV & SALES CO
- 130 FERGUSON PERFORATING & WIRE CO  
FERGUSON SALES AGCY  
FERGUSON, J CECIL, OFC
- 150 PLASTERER & CEMENT MASONS LOCAL 40  
PLUMBER'S TRAINING SCHOOL  
PLUMBERS UNION LOCAL 28 HEALTH WELFARE & PENSION FUND  
PLUMBERS UNION LOCAL NO 28  
ROOFER'S UNION LOCAL 169

**EDDY ST 1992**

- 1090 G D S CLEANING
- 1144 AUXITROL-USA  
FEDERAL PRODUCTS CORP AN ESTERLINE COMPANY
- 1157 NEW COTTAGE TAP INC
- 1159 COUNTRY TIRE SHOP
- 1183 CENTRO EVANGELIST CHURCH MMM
- 1196 SUZANNE IMPORTS INC
- 1201 VALDEZ, ROSARIO
- 1203 VELASQUEZ, HECTOR
- 1218 SWEETLIFE CASH & CARRY

**ERNEST ST 1992**

- 1 MARR SCAFFOLDING CO
- 2 RI STATE OF
- 20 DOWNTOWN PROVIDENCE IMPROVEMENT ASSOC INC-OPERATIONS CENTER  
PROVIDENCE CITY OF-DEPT OF PUBLIC WORKS-ENVIRONMENT CONTROL  
PROVIDENCE CITY OF-DEPT OF PUBLIC WORKS-READY ROOM-HIGHWAY
- 52 PROVIDENCE CITY OF-TRAFFIC ENGINEERS
- 70 CONTROLLER SERV & SALES CO
- 130 FERGUSON PERFORATING & WIRE CO  
FERGUSON SALES AGCY  
FERGUSON, J CECIL, OFC
- 150 BRICKLAYERS & ALLIED CRAFTSMEN LOCAL 1 OF RI  
PLASTERER & CEMENT MASONS LOCAL 40  
PLUMBER'S TRAINING SCHOOL  
PLUMBERS UNION LOCAL 28 HEALTH WELFARE & PENSION FUND  
PLUMBERS UNION LOCAL NO 28  
ROOFER'S UNION LOCAL 169



EDDY ST 1988

		122
<b>EDDY ST-Contd</b>		
O'CONNELL ENDS		
786	Roumie's Sign & Art (Addl Sp)	
787	Improved Laminated Wire (Overflow)	
788	Roumie's Sign & Art tattoo parlor 944-0252	
788½	True Holiness Church In Christ Jesus Ross Clode Rev 461-7267	
791	Dansal Jwly Corp (Addl Sp) 941-9213	
795	Dansal Corporation mfg jwlr 941-9213 Star Art Jewelry Co (Dansal Corp) mfg 941-9213	
797	Olan's Fire & Safety Equipment Service 785-1133 Action Fire Systems 785-1133	
BAY ST ENDS		
		119
POTTERS AV BEGINS		
810	Martelli Jewelry Company mfrs 467-9600	
811	Standard Liquor Store 941-9605	
SHERBURNE ST ENDS		
830	Geoffrey Distributing Co (ofcs) 461-2500	
TRASK ST BEGINS		
835	Variant	
839	Dunley Service Corp genl contrg 781-7788	
	Rear Pickett E R Co Inc serv sta equip splts 781-3455	
SWAN ST INTERSECTS		
850	Geoffrey Distributing Co Inc whol meat 461-2500	
857	Variant	
860	Custom Chemical Corp janitorial sups 781-8770	
	Environmental Specialties Corp janitorial supply 781-8770	
892	Eastern Bearings Inc parts distr 781-7171	
SAYLES ST INTERSECTS		
877	Variant	
890	Cooper Lewis Inc paint sups & equipment 461-3442	
883	Prince Hall Masonic Temple 461-4489 Arcadia Club lounge 461-4469	
MUTUAL ST BEGINS		
888	Oseo Bolt & Screw Co mfg ind marine fasteners 941-8400	
897	Regal Electric Supply storage 781-9739	
OXFORD ST INTERSECTS		
908	Little & Co Inc jwly mfg & findings 461-1900	
909	Church Of God In Christ Jesus	
912	Little & Co (Addl Sp) 461-1900	
913	Cox Loring J Signs 785-9630	
SEYMOUR ST ENDS		
915 D & E	Valeo Sales & Rental Co	
925	Bonnar Liquor (Addl Sp)	
927	Bonnar Liquor 941-8394	
ASHMONT ST BEGINS		
928	R F Study Co electroplaters 331-5571	
945	Atlantic Co The jwly mfg 941-1159	
946	National Plating Inc electro 461-3100 Marol Realty 461-3100	
BRIGGS ST INTERSECTS		
951	Variant	
951*	Vale Carol	
953	Simpson R E Co Inc caterers 461-1190	
WYATT ST BEGINS		
957	Variant	
989	Martins Maria C Mrs @ 941-8316 Baptista Rosa Rafael 941-1069	
992	Sotomayor Variant	
HASWELL ST BEGINS		
995	Variant	
999	Gay Elwood	
970	Machado Pauline M Mrs @ 467-7799 Machado Abel	
AUTUMN ST BEGINS		
980	Variant	
REEDER ST BEGINS		
985	Watergate Lounge 781-3774	
994	Lawton Used Cars Inc 861-6699 Lawton Whit & Sons Inc use-hold powers 861-6699	
996	Variant	
997	Abrich Car Rental (Addl Sp)	
998	Variant	
1000	Variant	
1001	Abrich Car Rental (Overflow)	
1002	Fitzgerald Linda 461-7021	
THURBERS AV INTERSECTS		
ZIP CODE 02903		
1025	Eastern Graphics 941-2890	
1025	Chain Amoblizer (Ships & Rev) Providence Cast & Carry (Side Entr)	
RICHARDSON BEGINS		
1041	Variant	
1047	Variant	
1049	Pioveso A @	
1055	Variant	
1057	Bonilla Iris @ 941-8265	
1059	Fritz Yvonne	
1068	Threans Rosalie	
1089	Esquillat Anna	
		122
NERRASKA BEGINS		
1071	Ramirez Maria	
1073	Johnson Jacqueline @	
1075	Cooley Win B 941-0195	
1076*	Jennings Jeanette 467-5108	
	Wheeler Anna 941-5358	
1078	Character Reginald 461-1387	
1080	New Press The prntg 941-8100	
PAVILION AV INTERSECTS		
BYFIELD BEGINS		
ROUTE 95 INTERSECTS		
RAILROAD INTERSECTS		
1116	Variant	
ALDRIDGE BEGINS		
1120	Variant	
		130
ERNEST ENDS		
1139	Federal Products Corp (Div Esterline) (mfg plant) 781-9300	
1144	Federal Products Corp gauge mfrs 781-9300	
	Esterline Corp (Fed Products)	
CASS INTERSECTS		
1150	Narragansett Electric Co (power plant)	
1157	New Cottage Pub Inc tavern 781-8952	
1159	Cesar Tires 941-2727	
1163	Ives Louise E Mrs @	
1165	Ives Robt W	
PORTER INTERSECTS		
1178	Lorac Co (Sign)	
1183	Terino R & Associates jwly machy whse 941-3366	
1185	Terino R & Assoc (Addl Sp)	
JOHNSON ST INTERSECTS		
1193	Church Of God Of Prophecy 941-5335	
1195	Variant	
1197	Apartments	
1*	Archibald L	
2*	Smith J	
4*	Klemm L	
5*	Salots T	
6	Variant	
1199	Variant	
BAKER INTERSECTS		
1200	Federal Products Corp precision instruments 781-9300	
	Esterline Corp (Fed Products)	
1201*	Furtado Victor	
1203*	Therault Donna Dupree Lori G	
CHAPMAN ST INTERSECTS		
1225	Moore Matilda E Cordeiro Arthur L 941-8095	
1227	Castillo John	
TORONTO AV ENDS		
JILLSON ST BEGINS		
1243*	Deignan Kathleen	
1245	Carr Norman @ 781-4069 Dahl Jane	
1247	Macon Geo B Cunha James C	
1249*	Cunha Roland @	
1251*	Morrzan Anna	
1253	Allison Rose @	
1255	St Pierre	
1257	Carbal Antone E @ 467-2956	
GEORGIA AV ENDS		
1261	Variant	
1263	Variant	
BROOM ST BEGINS		
1268	Winsor & Jerauld Manufacturing Co (Gessner Inc) textile machinery 781-2341	
CAROLINA AV ENDS		
1271	Tucci Anthony (Addl Sp) 941-9399	
1277*	Wentworth Anthony Washington Park Woodworking cbtmkr Tucci Anthony J Jr @ 941-2652	
1280	Alan Jewelry Co mfrs 785-0000	
1281	Britto Sylvester J 785-3764	
1283	Tunstall Edw	
1285	Prisa Junior L @ Lalu	
1287*	Taveira Dolores	
CALLA ST BEGINS		
1293	Variant	
1295	Good Hots Restaurant	
1297	Sahamit Market 467-6140	
		132
NEW YORK AV ENDS		
1299	Giron Waidman	
1301	Martinielli Dorothy A Mrs 461-6195	
	Corey Bethany L 941-6309	
1304	H & C Petroleum Inc 461-7394	
1305	Sullivan Barbara S Mrs	
1308	Charlie's Variety 461-1659	
1310	Baxter Deborah Jordan Jennie M Mrs 467-6471	
MORTON BEGINS		
1312	Lillibridge Jos @ 461-9331	
1316	Variant	
INDIANA AV ENDS		
1317	Variant	
1319	Henderson Marion S @ 461-6741	



ERNEST ST 1988

(4

130

ERASTUS ST-Contd

- 92 No Return
- FAIRMOUNT AV INTERSECTS
- YALE AV INTERSECTS
- 106 Wasilewski Waldemar J @ 751-4068
- ★Rose Dorothy
- ★Marezak Wojciech 421-6817
- 110 Deignan Chrisell B Mrs 861-6326
- 114 Izzo Thos A @
- 116 Stone Gale 274 4516
- 118 Leone Michl @ 272-2479
- 120★Damota Anthony
- HENDRICK ST ENDS
- 122 Rankl Edw G 331-8748
- 124 De Petrillo Edith Mrs @ 351-7951
- 126 Doyle Robt E
- 128 Bergeron Blanche 274-3736
- ★Roberge Lucien 274-3736
- 130 Di Biasio Ella L Mrs @ 351-9613
- 140★Nadeau Charles @
- POMONA AV ENDS
- 144 Mamelli Elena M Mrs @ 351-6849
- 146 Christiansen Mabel Mrs @ 861-3955
- 148 Beauchamp Robt A @ 273-0805
- 150 Conti Emilio @
- 157 Conti E (Adell Sp)

38

ERICSSON PL -FROM 581 ATWELLS AV TO 353 VALLEY

ZIP CODE 02909

11

ERIE ST -FROM 440 SHARON TO 108 ROME AV

ZIP CODE 02908

- Bsint Marchetti Anthony S @
- 14 Larkin Thos F 831-1039
- 15★Labadia Chas 421-1842
- 19 Lanni Florinda E Mrs @ 831-0667
- 20 Salem Thos J @ 861-1498
- 21 Gill Wm J
- ★Hodge Terry 421-5809
- 23 Forte Mario @ 521-2570
- 28 O'Connor Eliz M @
- 34 Vellucci Carmela E Mrs @ 521-5231
- 40 Madlira Marie A Mrs @ 272-5075
- 41 Cournoyer David A Jr @
- 45 Gauvin Bruce @ 351-3286
- 46 Nofi Eliz
- Nofi Guido H @
- 49 Quirk Wm J @ 831-6579
- 59 Clancy Wm P @ 831-2414
- 68 Picozzi Alf J @ 421-2427
- 73 Pieniadz Edw W @ 521-2577
- 81 Morrone Marie A Mrs @ 274-8950
- 85 Giusti Constantino J @ 861-5871
- 86 Antonelli Vincent E @ 272-2408
- 89 Ruggiero Pasquale @ 831-6333
- 92 Antonelli Carl @ 831-5503
- 97 Di Mauro Carmela Mrs @ 274-0099
- 101 Boutier Thomas F Jr @ 521-1514
- 102 Barcola Nicholas A @ 274-6070

122

ERNEST ST -FROM BEYOND SHIPYARD ST WESTERLY TO 1136 EDDY ST

ZIP CODE 02905

- SERVICE RD BEGINS
- 1 Marr Scaffolding Co bldg mats & sup 467-3110
- 2 Narragansett Bay Comm (Waste Wtr Treatment) 277-6780
- SHIPYARD ST BEGINS
- 20 City Department Of Public Works Highway Dept 467-7950
- City Department Of Public Works City Yard 467-7950
- City Dept Of Public Wks (Sidewalk Dept) 467-7950
- City Sewer Maintenance Dept 467-7950
- City Environment Control 467-7950
- 30 City Municipal Garage 941-5120
- 34 City Vehicle Identification Inspection Sta 272-3121

- ELLIS ST BEGINS
- 37 Narragansett Bay Water Quality Mgmt Commission 461-1790
- 40 City Police Mounted Command 272-3121
- 50 City Police Sub-Station No 1 272-3121
- City Public Property Dept
- 60 City Dept Traffic Engineers 781-4044
- ALLENS AV INTERSECTS
- 70 Controller Service & Sales Co Inc mtr control distr 781-7100
- ROLLIN BEGINS
- 125 Amica (Whse)
- JOHNSON ST BEGINS
- 128 Ferguson Perforating & Wire Co rec & ship dept
- 130 Ferguson Perforating & Wire Co 941-8876
- PORTER BEGINS
- 150 Plumbers Building Inc
- Plumbers Health & Welfare Trust Fund org relief 781-9371
- Rooms
- 1a Plumbers Union Local 28 org labor 781-8477
- 2 Blueprint Shop & Classroom
- 3 Plumbers Union Local No 28 (Pension Fund)
- 5 Plumbers Union Local (Addl Sp)
- 6 Bricklayers & Allied Craftsmen Local No 1 467-7074
- 7 Bricklayers & Allied Craftsmen No 1 Of R 1 (addl sp)
- 8 Roofer's Union 467-6090
- 9 Plasterers & Cement Masons Local 40 Afl-Cio 785-2230
- 10 Plumbers Union Local 28 (Addl Sp) 781-8477
- CASS BEGINS

33 Me  
34 Pa  
35 Ri  
36 Za  
37 Sa  
38 De  
39 Ia  
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ESTEN ST -FROM 351 ORMS TO 370 SMITH

ZIP CODE 02908

- 2 Harris Amelia 421-7913
- ★Tran Dung 273-5325
- 4★Fitts Christina 861-1814
- ★Sornak Pothiyah
- 7 Sparks Bertram L
- 8 Apartments
- 1★Phepsoumhou Van L 272-0396
- 2★Souvangsong Channoy
- 3 No Return
- 4 Keomanivong Chantha 331-5216
- 9 Lynch Margt F @ 331-9365
- 10★Rinderer Edw 331-0971
- 11 Vacant
- 13★Rivera Mary 861-3158
- ★Kuscko Rhonda
- 14 Scahill Larry 351-8295
- ★Medeiros Jose A
- 15★Augustatis Koste @ 421-0546
- Vacant
- 16 Kosinski Ernest
- Lalierriere Suzan 351-2419
- 17 Quinn Ellen Mrs 521-5710
- 20 Brophy Ronald
- ★Adams David
- 20½ Carroll Eileen 861-3375

35

38 Pa

43 Zo

45 Ri

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72 Me

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75 Pie

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78 Sil

80 Sil

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83 Ge

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De

85 Co

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UNI

105 C

106 C

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183-A

ESTHER DR (NORTH PROVIDENCE) FROM 10 WOODHAVEN BLVD NORTHWESTERLY TO ELMORE AV

ZIP CODE 02911

- 1 Puerini Richd A @ 231-4096
- 8 Beausejour Lucien J @ 231-9573
- 9 Rendine Edw R @ 231-3848
- 10 Lanni Louis Jr @
- 11★Briels A @ 232-2167
- 15 Codagnone Santa @ 231-1938
- 16 Esposito David V
- 18 Matterese Edw L @ 231-3325
- 19 Souza Antonio J @ 232-0736
- 23★Fogarty Joseph @ 232-3424
- 25 St Ines Amadeo @ 231-9517
- BARBARA ANN DR INTERSECTS
- 30 Ormazian Kevin @

108 W

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109★S

115 C

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119★F

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137 D

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138 C

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ZIP

BOL

225 Wampanoag Trail, E. Providence, RI (02815)

AMPEREX ELECTRONIC

EDDY ST 1983

	061 Vacant	
	062*Baptista Danl P	
	*Brown Nathl L	
	HASWELL ST BEGINS	
	965*Teixeira Mury Mrs © 941-1741	
	069*Gay Elwood A ©	
	970 Machado John R © 467-7799	
	Varan Beatrice Mrs	
	Gouveia Alda Mrs	
	AUTUMN ST BEGINS	
	930 Vacant	
	REEDER ST BEGINS	
	935 Watergete Lounge 781-3774	
	994 Lawton Ured Cars Inc 467-4680	
	Lawton Wm & Sons Inc 861-6899	
	Lawton W M Movers (Whse)	
	296 Cholaskian Papken ©	
wire	997 Aldrich Car Rental (Overflow)	
	998 Vacant	
	1000*Gonsalves Sue A Mrs © 941-6077	
	1001 Aldrich Car Rental (Overflow)	
	1002*Fitzgerald Linda 461-7021	
	THURBERS AV INTERSECTS	
		122
	ZIP CODE 02903	
	1011 Vacant	
as	1015 Riley Geo	
	Etheridge Gertrude Mrs	
	1017 Vacant	
g	1025 Eastern Graphics 941-2590	
	RICHARDSON BEGINS	
1133	1041 Vacant	
	1047 Vacant	
	1049 Gegnon Dorothy C Mrs © 941-8220	
	1055 Vacant	
119	1037 Ramirez Joe © 941-6023	
	NEBRASKA BEGINS	
	1071 Johnson Jnnice	
	1073 Johnson Jacqueline ©	
	1075 Cooley Wm B 941-0195	
	0175*Cooley Wm	
	1076 Snead Clarence	
	Klehr Leonard 461-9491	
	1078 Charaster Reginald 461-1367	
	PAVILION AV INTERSECTS	
	BYFIELD BEGINS	
768	ROUTE 95 INTERSECTS	
	RAILROAD INTERSECTS	
	1116 Vacant	
lsta	ALDRIDGE BEGINS	
	1120 Vacant	
		130
	ERNEST ENDS	
it	1139 Federal Products Corp (Div Esterline)	
	(mfg plant) 781-9900	
71	1144 Federal Products Corp precision	
	instruments 781-9300	
	Esterline Corp (Fed Products)	
	CASS INTERSECTS	
	1150 Narragansett Electric Ce (power plant)	
	1157 New Cottage Pub Inc tavern 781-8962	
ent	1159 Domestic Sheet Metal Engineering Inc	
	941-2727	
	1168 Ives Louise E Mrs ©	
	1165 Ives Rebt W	
	PORTER INTERSECTS	
	1178 Lorac Ce (Stge)	
	1183 Vacant	
	1135 Vacant	
	JOHNSON ST INTERSECTS	
	1193 Church Of God Of Prophecy 941-5335	
	1195 Eddy Street Lunch 941-9475	
	1197 Vacant	
	1199 Vacant	
	Linton P & A Ce jwry mfrs 941-1665	
	Dohsen Ce jewelry mfg 461-5244	
	Vacant	
	BAKER INTERSECTS	
	1290 Federal Products Corp (Overflow)	
	Federal Products Corp precision	
	instruments 781-9300	
	Federal Products (Overflow)	
	Esterline Corp (Fed Products)	
	1201 Vacant	
	1203*Dupree Jean Mrs 467-2308	
	*Dupree Leri	
	CHAPMAN ST INTERSECTS	
	1225 Cavitti G Lewis	
	Vacant	
	1227 Vacant	
	TORONTO AV ENDS	
	JILLSON ST BEGINS	
	1248 Carr Gertrude Mrs 481-0199	
	1248 Morissette Louis F 941-4534	
	Vacant	



**ERNEST ST 1983**

101 Boutier Thomas F Jr © 521-1514  
102 Baccala Nicholas A © 274-8070

29 **ERNEST ST —FROM BEYOND SHIPYARD ST WESTERLY TO 1136 EDDY ST** 122

ZIP CODE 02905

SERVICE RD BEGINS

1 Marc Scaffolding Co bldg matls & sup  
467-3110

2 Narregansett Bay Water Quality Mgmnt  
Commission 277-6795

SHIPYARD ST BEGINS

20 City Department Of Public Works Highway  
Dept 467-7950

City Department Of Public Works City  
Yard 467-7950

City Dept Of Public Wks (Sidewalk Dept)  
467-7950

City Sewer Maintenance Dept 467-7950

City Sewer Department 467-7950

City Environment Control 467-7950

30 City Municipal Garage 941-5120

ELLIS ST BEGINS

37 City Sewer Maintenance 461-1790

40 Providence Police Mounted Command  
272-0121

50 Providence Police Sub-Station No 1  
272-1111

City Public Property Dept

50 City Dept Traffic Engineering 781-4044

ALLENS AV INTERSECTS

70 Controller Service & Sales Co Inc mtr  
control distr 781-7106

ROLLIN BEGINS

125 Annica (Whse)

JOHNSON ST BEGINS

128 Ferguson Perforating & Wire Co rec &  
ship dept

130 Ferguson Perforating & Wire Co 941-8376

PORTER BEGINS

150 Plumbers Building Inc  
Rooms

150 Plumbers Health & Welfare Pension Ofc  
org welfars & relief 781-9371

1a Plumbers Union Local 28 org labor  
781-5477

2 Meeting Hall

3 Coordinators Plumbing School

5 Sheet Metal Workers International Assn  
Leo No 17 467-7075

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ERNEST ST 1983

Target Street	Cross Street	Source
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<b>ERNEST ST—Contd</b>		22 Di
6 Bricklayers & Masons Local No 1 (Overflow)		Sch
7 Bricklayers & Masous Union No 1 Of R I (Overflow) 781-1870		25 Ver
8 Bricklayers & Masons Union No 1 Of R I 467-7074		31 De
8 Bricklayers & Masons Union No 1 Of Ri (Overflow)		32 Car
9 Plasterers & Cement Masons Local 40 Afl-Cio 785-2230		SIM
10 Plumbers Union Local 28 (Overflow) 781-8477		35 Ver
<b>CASS BEGINS</b>		38★Pa
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		43 Zor
		45★Wi
		SOP
		49 Col
		MUI
		67 Ede
		Rel
		★H
		68 Cat
<b>ESTEN ST —FROM 351 ORMS TO 370</b>		35



EDDY ST 1978

104

EDDY ST—Contd

914 Harold Jacklyn D Mrs  
Pina Thos  
916 Christ Church Thrift Shop used clo  
941-1786  
SEYMOUR ST ENDS  
923 Steve's Barber Shop  
927 Bemar Pharmacy 941-8894  
ASHMONT ST BEGINS  
928 Seaboard Tire Service retail sla 461-5533  
945 Vacant  
946 National Plating Inc electro 461-3100  
Marol Realty 461-3100  
BRIGGS ST INTERSECTS  
950 Oscar's Lounge & Grille 781-7597  
951 Orchard Beatrice M Mrs 941-8820  
Vacant  
953 Simpson R E Co Inc caterers 941-1229  
WYATT ST BEGINS  
957 Hazzard Lilli Mrs  
960 Vacant  
961\* Taylor Ralph  
962\* Leon Herbert J  
Vacant  
HASWELL ST BEGINS  
865 Teixeira Mary Mrs @ 941-1781  
969 Vacant  
AUTUMN ST BEGINS  
970 Machado John R @ 467-7799  
\*Varan Beatrice Mrs  
Santos Armando  
986 Vacant  
REEDER ST BEGINS  
985 Watergate Lounge  
900 Vacant  
996 Hagopian Haigouhi C Mrs @ 941-7658  
998 Vacant  
THURBERS AV INTERSECTS  
  
ZIP CODE 02963  
1011 Wonder Bar 941-9433  
1015 Riley Geo  
Etheridge Gertrude Mrs  
Patterson Thos C  
1017 Corry Genevar Mrs 941-4313  
1025 Joyner C B Co Inc 941-8103  
Joyner's Cy Antique Gallery 941-8103  
Fineline Studio sculpture 941-8103  
1033 Clayton John Jr antique dlr @ 461-3130  
RICHARDSON BEGINS  
1041 Brown Joseph W Rov @  
1047 Simonelli Louis G 781-6710  
1049 Pitocco Theresa Mrs @ 941-8229  
1055\* Polanco Bella Mrs 461-8640  
1057\* Eggleston Raymond L 941-8643  
NEBRASKA BEGINS  
1066 Vacant  
1065\* Threats Rosalie 941-8853  
1069 No Return  
1070 Vacant  
1071\* Watkins Joanne L  
1073 Vacant  
1075 Coaley Wm B 941-0195  
1076 Wheeler Anna Mrs @  
Klehr Leonard 461-9491  
1078 Character Reginald 461-1337  
PAVILION AV INTERSECTS  
1090 Vacant  
BYFIELD BEGINS  
ROUTE 95 INTERSECTS  
RAILROAD INTERSECTS  
1116 Texaco Corp (Retail Development Cntr)  
461-2852  
1117 Vacant  
Hobin Walter E @ 781-1119  
1119 Bailey Geo H 781-0733  
ALDRIDGE BEGINS  
1120 Curran & Burten (Div Of Texaco) fuel &  
range oil 467-8050  
Texaco Inc (Fuel Oil Sls Div) 467-6050  
  
180  
ERNEST ENDS  
1144 Federal Products Corp precision  
instruments 781-9309  
1147 Carroll Nora A @ 785-9664  
CASS INTERSECTS  
1150 Narragansett Electric Co (power plant)  
1157 Cottage Tap Inc 781-8952  
1159 Vacant  
1163 Ivos Eugene W @ 461-4349  
1165 Malarkey Edw L 781-2546  
PORTER INTERSECTS  
1175 No Return  
1177 Fagnant Mildred Mrs 941-1407  
Gardner Mabel E Mrs @ 781-2156  
1178 Lorac Co (Stge)  
1183 Vacant  
1185 Vacant  
JOHNSON ST INTERSECTS  
1189 Vacant  
1193 Tony's Tap 941-9808  
1195 Storti's Restuarant 941-9475  
1197 No Return  
1199 Paria Enameling Inc 781-5885  
Linton P & A Co jwlry mfrs 941-1865

Dobson Co jewelry mfg 461-5244  
BAKER INTERSECTS  
1200 Wilson Building (Big Chief Corp)  
D & D Liquor Corp 781-8922  
Chief Smoke Shop 781-8922  
Almac's Inc gro 781-2924  
Big Chief Corp real est 467-4414  
Eddy St Restr 781-8916  
Wilson's Chief Barber Shop  
1201 Laird De Vou Inc abrasive sups whol  
781-6282  
1203 Haglund Ruth Mrs  
Dupree Jean Mrs  
CHAPMAN ST INTERSECTS  
1225 Vacant  
Vacant  
1227 Vacant  
TORONTO AV ENDS  
JILLSON ST BEGINS  
1243\* Carr Gertrude Mrs 461-0199  
1245 Morissette Louis F 941-4534  
\*Carr James M 941-0469  
1247 Gilbert Eva Mrs  
1249 De Moizio Anthony @  
1251 Vacant  
Kent Constance A Mrs 785-1895  
1253 Laurendeau Joseph R @ 781-9784  
1255 Kramer Wm T 781-6186  
\*Mc Gillivray Lillian C Mrs 461-5310  
1257 Cardiff Bernard J 461-4388  
GEORGIA AV ENDS  
1261 Adams Walter F 941-8423  
1263 Gardner Joseph F Jr @ 467-4562  
BROOM ST BEGINS  
1266 Winsor & Jerauld Mfg Co textile  
machinery 781-2341  
CAROLINA AV ENDS  
1271 Arpin Lorraine M Mrs @ 941-6049  
1277 Tucci Anna Mrs @ 781-0625  
Tucci Anthony J Jr 941-2652  
1286 Alan Jewelry Co 785-0900  
1281 Kennedy's Delivery 781-4483  
Flynn Michl J  
Hepburn Margt A Mrs @ 781-4483  
1283 Cady Kenneth  
1285 Di Mauro Thos @ 781-5984  
Henn Emma L Mrs  
1287 Schmalenberger John 461-2536  
CALLA ST BEGINS  
1293 Marcello's Light Lunch 461-3370  
1295 Vacant  
1297 Vacant  
  
132  
NEW YORK AV ENDS  
1209 No Return  
1301 Martinelli Wm F 941-6521  
Nimblett Dorothy Mrs  
1304 H & C Petroleum Inc 461-7394  
1305 No Return  
1308 P & M Variety 781-6128  
1309\* Potter Norman  
1310 Potter Charles C @  
Jordan Jennie M  
1311 Vacant  
MORTON BEGINS  
1312 Lillibridge Richd @  
1316 Leo Carter A @  
INDIANA AV ENDS  
1317 Vacant  
1319 Henderson Marion S @ 461-6741  
1323 Sciandri Orlando @ 781-3627  
1326 Grier Robt E @ 461-6347  
1327 Gunderson Thos R @  
1380 Williams Wesley A @  
1331 Cummings Glenn A @  
1334 Pamco Jewelry Inc 272-3451  
1335 La Croix Leonard J  
1366 No Return  
1337 Vacant  
1638 Ole's Place pizza 781-8889  
OHIO AV ENDS  
1346 Slade Walter H @ 461-9170  
1352 Vacant  
\*Duffy Carol A  
1358\* Proffitt Geo @  
CALIFORNIA AV ENDS  
1366 Donald Manuel A @ 461-8642  
1370 Smith Charles A @ 941-5847  
1376 Desnoyers Enterprises confectionery-ret  
941-0780  
Carter's Candy Shops 941-0786  
VERMONT AV ENDS  
WASHINGTON SQ BEGINS  
  
22  
EDENDALE AV —FROM 65 FRUIT HILL  
AV TO DEAD END  
  
ZIP CODE 02911  
10 Di Mase Vincent @ 351-8380  
Di Mase Maria L Mrs  
15 Saint Thomas Regional School 351-0403  
40 Trembl Bernard E Jr @ 521-5616  
41 Saint Thomas Convent: 272-1722  
45 Pastore Donato @ 361-7616



## ERNEST ST 1978

## ERASTUS ST—Contd

71 Beauchene Jeanne R @  
Hayward Francis R 331-0319  
74 Ferrelli Anthony 831-4037  
75 Giarrusso Matto @ 274-6926  
MONTROSE ST ENDS  
76 Bigbie Mary J Mrs 861-0870  
80 Grenon Marcus A Jr @ 351-5895  
82 Buccy Mary Mrs 521-6193  
88 Mc Ginn John P 331-8459  
Egan Marie V Mrs @ 831-2665  
FAIRMOUNT AV INTERSECTS  
YALE AV INTERSECTS  
106\*Paquin Kath H Mrs 274-5710  
Phillips Howard L Jr 831-1465  
\*Sigrore Joseph L 421-6950  
110\*Browning David J @ 831-5359  
114 Izzo Thos A @ 831-4732  
116\*Ward Mark  
118 Independent Taxi 351-8237  
Leone Michl @ 351-8237  
120 Emond Dennis 521-9368  
HENDRICK ST ENDS  
122 Colavecchio Joseph @  
124 De Petrillo Guido @ 351-7951  
126 Doyle Robt E  
128 Volante Rose Mrs @ 351-3247  
130 Di Bissio Albert C @ 351-9613  
140 Simeone Nicholas P @ 831-2979  
POMONA AV ENDS  
144 Mainelli Luigi A @ 351-6849  
146 Christiansen Mabel Mrs @ 861-3955  
148 Donovan Geo W 521-6283  
150\*Conti Emilio  
157 De Vincenzo Vincent @ 272-4524

ERICSSON PL —FROM 581 ATWELLS AV  
TO 353 VALLEY

ZIP CODE 02909

ERIE ST —FROM 440 SHARON TO 108  
ROME AV

ZIP CODE 02908

14 Marchetti Anthony S @ 274-3235  
\*Mc Caffrey Darryl 941-7273  
19 Lanni Floinda E @ 831-0667  
20 Salem Thos J @ 861-1498  
21 Buonomano Virginia M Mrs @ 274-8731  
23 Forte Mario @ 521-2570  
28 Gemma Enrico A Mrs @ 351-8126  
34 Vellucci Pasco @  
40 Calise Santa M Mrs @ 831-7058  
Madira Marie A Mrs @ 831-0758  
41 Thibault Barbara A Mrs @  
45 Iarocci Michl @ 831-6195  
46 Sheridan Earl J @  
D'Arezzo Richd E @ 751-6383  
49 Quirk Wm J @ 831-6579  
59 Clancy Wm P @ 831-2414  
68 Picozzi Alf J @ 421-2427  
73 Pieniadz Edw W @ 521-2577  
81 Morrone Marie A Mrs @ 274-8950  
85 Folgo Edmund N @ 421-5603  
86 Mansolillo Renato 831-0486  
89 Ruggiero Pasquale @ 831-6333  
92 Antonelli Carl @ 831-5503  
97 Di Mauro Carmela Mrs @ 274-0099  
101 Giusti Costantino J @ 861-5871  
102 Baccala Nicholas A @ 274-6070

ERNEST ST —FROM BEYOND SHIPYARD  
ST WESTERLY TO 1136 EDDY ST

ZIP CODE 02005

2 City Sewage Disposal Works 461-1866  
SERVICE RD BEGINS  
1 Marr Scaffolding Co hse-bldg movers-  
shoring contra 467-3111  
SHIPYARD ST BEGINS  
20 City Department Of Public Works Highway  
Dept 467-7950  
City Department Of Public Works City  
Yard 467-7950  
City Dept Of Public Wks (Sidewalk Dept)  
467-7950  
City Sewer Maintenance Dept 467-7950  
City Sewer Department 467-7950  
City Environment Control 467-7950  
30 City Municipal Garage 941-5120  
ELLIS ST BEGINS  
37 City Sewage Pumping Station 461-1790  
40 City Recreation Dept Mtce Div 421-7740  
60 City Dept Traffic Engineering 781-4044  
ALLENS AV INTERSECTS  
70 Controller's Service & Sales Co Inc mtr  
control distr 781-7100  
ROLLIN BEGINS  
125 Vacant  
JOHNSON ST BEGINS  
127 Turgeon E Construction Co Inc whse  
461-0812  
130 Ferguson Perforating & Wire Co 941-8876

## PORTER BEGINS

150 Plumbers Building Inc  
Rooms  
1 Plumbers Health & Welfare Pension Ofc  
781-9371  
1a Plumbers Union Local 28 781-8477  
2 Meeting Hall  
3 Coordinators Plumbing School  
4 Coordinators Plumbing Sch (Overflow)  
5 Sheet Metal Workers International Assn  
Loc No 17 467-7075  
7 Hotel Restaurant Serv Emp & Bartndrs  
Un Local 217 781-1870  
8 Bricklayers & Masons Union No 1 Of R  
1 467-7074  
8 Bricklayers & Masons Union No 1 Of R  
(Overflow)  
9 Plasterers And Cement Masons Local 40  
Aff Cio 785-2230

## CASS BEGINS

ESTEN ST —FROM 351 ORMS TO 370  
SMITH

ZIP CODE 02908

2\*Traver Stephen W  
4\*Linnens John M  
\*Conlon Patricia D 861-5445  
\*Thibeault Marie E Mrs 274-9422  
4½ Donnelly Charles A Jr  
\*Leonard Mary  
7 Sparks Bertram L  
8 Apartments  
1 No Return  
2 Joseph Michl 272-1126  
3 No Return  
4 Cyr Geo W  
9 Lynch Margt @ 331-9365  
10 Holt Merina Mrs @ 521-4909  
Owens Mary K 521-6197  
11 Sarkisian Sarkis K @ 751-6108  
12\*Mallett Frederick J  
\*Savone Patrick  
\*Buxton Linda  
13 Veingertnerik Eduardas  
\*Escahera Raymond  
14 Vacant  
Harrison Jennie Mrs 421-6812  
\*Ruiz Sonia  
15 Guobys Donna Mrs  
Augaitis Constantine Mrs @ 421-0546  
August Vatslona  
16 Kosinski Ernest  
Kosinski Josephine Mrs  
17 Quinn Ellen Mrs 521-5710  
20 Suzedelis Virginia R Mrs 331-1648  
Vacant  
20½ Suzedelis Joseph @ 521-1652

## ESTHER ST —FROM 32 VALLEY

ZIP CODE 02909

ETHAN ST —FROM 83 DANIEL AV TO  
FARMINGTON AV

ZIP CODE 02009

MERCY ST INTERSECTS  
22 Di Mauro Mary C Mrs @ 944-6603  
Schiavulli Domenic 944-5006  
25 Venticinque Thos W @ 944-6842  
31\*Di Manna Antonio @ 943-0648  
32 Carcieri Elia A Mrs 944-4732  
SIMMONS ST INTERSECTS  
35 Ardito Anthony 944-4035  
38 Porcelli Vincent 942-8548  
43 Zompa John @ 944-4643  
45 Grande Adeline 944-4740  
SOPHIA ST INTERSECTS  
49 Colardo Roht I. @ 944-5182  
MURRAY ST INTERSECTS  
67 Ramsey Dean  
Roberto Ruth S Mrs  
Dalo Eliz N Mrs @ 944-5629  
68 Giardino Robt J 943-5541  
Giardino Anthony R @ 944-5756  
71 Campopiano Adeline V Mrs @ 944-5774  
72 Medeci Americo I.  
Cutolino Domenico @ 944-5298  
75 Pisaturo Romeo & Sons Inc florist 944-6880  
Pisaturo Carlo @ 944-5558  
78 Silver Lake Sausage Shop (Overflow)  
80 Silver Lake Sausage Shop 944-4081  
MOOREFIELD ST INTERSECTS  
83 Gemma's Bar  
Gemma Rose Mrs @ 944-5577  
De Pulmu Robt I. 944-4488  
85 Mi-Ro Jewelry Co 944-3818  
\*Matters Sharon T 942-8870  
Newman Phillip J 942-6853  
SILVER LAKE AV INTERSECTS  
92 Romano John B & Sons Inc (Overflow)  
UNION AV INTERSECTS

105\*Ca

106 Ciu

\*M

108 Die

Sol

Cut

109 Par

Vac

115 Car

Car

119 Bac

PRUI

137 De

Pee

138 Cel

145 Pes

ETNA :

CLEV

ZIP C

BODE

EUCLII

406 B

ZIP C

2 Esme

Vacar

5\*Bena

7\*Berg

9 Vacar

10 Squi

Vaca

11 Anth

14 Man

15 Wini

Buch

17 Davi

18 Vaca

19\*Men

EUDOF

EDDY

ZIP C

28 Keny

29 De S

31 Meni

32 Faus

34 Gon

35 Dav

36\*Eno

38 De S

40\*Mar

42 No E

48 Vaca

50 Sous

EUGEN

SPRI

ZIP C

1 Ciarra

3 De M

5 Ragas

8 Pitoc

Catell

EUROP

DE P

ZIP C

4 Norciu

St An

\*Turc

6 Vacan

\*Del

6½ Buti

Nac

Di I

14 Vaca

Mart

16 Picor

Vaca

18 Faza

Iafra

Paluz

20 Gran

\*Ma

Faiol

Mira

Vaca

\*Mo

EUTAW

ATWE

ZIP C

SPRU

**EDDY ST 1974**

109	
	Etheridge John P 461-2819 1257
	Vacant GE
	1017 No Return 1261
119	1025 Acme Waterproofing Inc 781-0457 1263
	1033 Clayton John Jr junk dir @ 461-3130 BR
	RICHARDSON BEGINS 1268
	1041 Brown Joseph W Rev @ 461-8487
	1047 Simonelli Louis G 881-6710 CA
	Vacant 1271
	1049 Pitocco Theresa Mrs @ 941-8229 1277
	1055 Vacant
	Nazario Ernesto 1280
	1057 Vacant 1281
	NEBRASKA BEGINS
	1065 Vacant 1283
	1066 Vacant 1285
	1067 *Johnson Georgeanna Mrs
	1068 Turbitt John J @ 461-4794
	1069 *Ferrara Anthony 1287
9701	1070 Vacant CA
	1071 Vacant 1293
	1072 Vacant
173	1073 Vacant 1295
	1074 *Smith Rowena A 1296
	*Pompey Florence E Mrs
	1075 Lopes Cath P Mrs
	1076 *Jackson Maurice NE
	No Return 1299
	1078 *Character Reginald 461-1387 1301
	PAVILION AV INTERSECTS
	1000 Vacant 1304
	BYFIELD BEGINS 1305
	ROUTE 95 INTERSECTS 1308
	RAILROAD INTERSECTS 1309
	1116 Texaco Corp (Sls Ofc) 1310
ment	1117 Jim Mac's Garage 781-8802
	Hobin Walter E @ 781-1119 1311
	*Hobin Walter E Jr 781-1119 MO
	1119 Bailey Geo H 781-0738 1312
	Brock John 941-5465 1316
	ALDRIDGE BEGINS 1317
	1120 Curran & Burton (Div Of Texaco) fuel & range oil 467-8050 1319
	Paragon Oil division texaco 467-8050 1323
	1326
	130 1327
	ERNEST ENDS 1330
	1144 Federal Products Corp precision instruments 781-9300 1331
	1147 Carroll Nora A @ 785-9664 1334
	CASS INTERSECTS 1335
	1150 Narragansett Electric Co (power plant) 1336
	1157 Cottage Tap Inc 781-8952 1337
	1159 Standard Sheet Metal Roofing Inc 461-9393 1338
	1163 Vacant OH
	1165 *Malarkey Edw L 781-2546 1346
	PORTER INTERSECTS 1352
	1175 Roy Ruth G Mrs 941-1711
533	1177 Fagnant Mildred Mrs 941-1407 1358
	Gardner Mabel E Mrs @ 781-2156 CAI
Dist	1178 Lorac Co (Stge) 1366
	1183 Vacant 1370
070	1185 Vacant 1374
	JOHNSON ST INTERSECTS 1376
	1189 C & T Antiques VEI
	1193 Tony's Tap 941-9808 WA
	1196 Tisba's Diner 941-9686
	1197 Serydynski Joseph furn mover 941-0727 EDEN
	*Millerick Wm AV
	Mc Cormick Gladys A Mrs 781-4869
	Perry Margt Mrs ZIP
	Bobowiec Anna Mrs 461-1830 10 Di
0	Vacant Di
	1199 Lovecraft Inc decorative foilpaper 15 Sa
	781-5577 40 Tr
	Paris Enameling Inc 781-5885 41 Sa
	Linton P & A Co jwly mfrs 941-1865 45 Pa
	BAKER INTERSECTS
	1200 Wilson Building
	Gordon's Smoke And Novelty Shop ST1-8922 EDGE
	Almac's Inc gro 781-2924 TO
	Big Chief Corp real est 467-4414
	Eddy St Restr ZIP
	Wilson's Chief Barber Shop 15 Sp
	1201 Laird De Vou Inc abrasive sups whol 16 Aj
	781-6282 17 Ke
	1203 *Haglund Ruth Mrs 18 Pe
	*Dupree Jean Mrs 24 Lo
87	CHAPMAN ST INTERSECTS 27 Po
	1225 Moore Arth H 941-6029 28 Os
	Scavetti Matilda Mrs 32 *F
	1227 Carolone Peter P III 941-3654 33 *F
	TORONTO AV ENDS 39 Ch
	JILLSON ST BEGINS 43 *M
8	1243 Lopiccolo Sheila Mrs 461-0199 44 Wi
	1245 Morissette Louis F 941-4534 48 Nd
	Carr James M 461-2431 49 *C
	1247 Vacant 55 Sr
	*Gilbeau Eva Mrs 56 Ro
	1249 De Moizio Anthony @ 60 Pri
	1251 Theodore Celia Mrs @ 941-8114 61 Ab
122	Kent Constance A Mrs 785-1895 65 Co
	1258 Laurendeau Joseph R 781-9784 66 *L
	1255 Johnson Jennie C 781-0655 70 Ch
	Laurendeau Joseph Jr 941-7081 71 Ca



ERNEST ST 1974

117

ERASTUS ST—Contd

- 45 Mc Maugh James E @ 331-4955
- 49 Hodges Alf L
- 51★Drowne John
- 52 No Return
- 54 Brown Leonard M JA1-7524
- ★Dwyer Thos J

ZIP CODE 02908

ATWELLS AV INTERSECTS

- 62 Long Matilda Mrs 351-8660
- 64 Hogan Mary C Mrs 861-5853
- 65 Chapman Francis 861-6425
- Dionne Michl L 272-0574
- Wojciochowski Leon UN1-4836
- 66 Carmell Ethel V Mrs 351-7985
- 08 Martin Margt E Mrs 272-0463
- Tashjian Albert S 351-6075
- 69 Gadoury Alf L 351-3245
- 71 Beauchesne Delia Mrs @ 521-9852
- Hayward Francis R 331-0319
- 74 Ferrelli Anthony 831-4037
- 75 Cormier Raymond V @ 351-2932

MONTROSE ST ENDS

- 76 Di Nitto Fortunata A Mrs @ 831-5542
- 80 Grenon Marsus A Jr @ 397-7537
- 82 Buccì Edw 521-6193
- 88 Mc Ginn John T 831-8459

Egan Marie Mrs @ 831-2685

FAIRMOUNT AV INTERSECTS

YALE AV INTERSECTS

- 106 Reardon Hazel A Mrs 272-9236
- Phillips Howard L Jr 831-1465
- Vacant

- 110 Guimond Valerie G @ 351-0138
- 114 Corra Steph L @ 274-8845
- 116★Izzo Kenneth

- 118 Independent Taxi 351-8237
- Leone Michl @ 351-8237

- 120 Mansillilo Robt 272-4183

HENDRICK ST ENDS

- 122 Colavocchio Joseph @
- 124 De Petrillo Guido @ 351-7951
- 126 Doyle Robt E
- 123 Volante Rose Mrs @ 351-3247
- 130 Di Biaio Albert C @ 351-9613
- 140 Simeone Nicholas P @ 831-2079

POMONA AV ENDS

- 144 Mainelli Luigi A @ 351-6849
- 146 Christiansen Mabel Mrs @ 861-3955
- 148 Donovan Geo W 521-6283
- 150 Manocchio Viola Y Mrs @ 831-4155
- 157 De Vincenzo Vincent @ 272-4524

ERICSSON PL —FROM 581 ATWELLS AV TO 853 VALLEY

ZIP CODE 02909

ERIE ST —FROM 440 SHARON TO 138 ROME AV

ZIP CODE 02908

- 14 Marshetti Anthony S @ 274-3235
- Mc Caffrey Darryl P 274-6477
- 19 Lanni Florinda E Mrs @ 831-0667
- 20★Salem Thos J 861-1498
- 21 Buonomano Virginia M Mrs @ 274-8731
- 23 Forta Mario @ 521-2570
- 28 Gomma Enrico A @ 272-4024
- 34 Vellucci Pasco @ 521-5265
- 40 Calise Santa M Mrs @ 351-0135
- ★Madiria Marie A Mrs 351-0135
- 45 Iarocci Michl @ 831-6195
- 46 D'Arezzo Christine F Mrs @ 272-4834
- 49 Quick Wm @ 831-6579
- 59 Clancy Wm P @ 831-2414
- 08 Picozzi Alf J @ 421-2427
- 73 Pieniade Edw W @ 521-2577
- 81 Morrone Wm @ 274-8950
- 85 Folgo Edmund N @ 421-5603
- 86 Mansolillo
- 89 Ruggiero Pasquale @ 831-6333
- 92 Antonelli Carl @ 831-5503
- 97 Di Mauro Carmela Mrs @ 274-0099
- 101 Ginati Costantino J @ 861-5871
- 102 Baccala Nicholas A @ 274-6070

ERNEST ST —FROM BEYOND SHIPYARD ST WESTERLY TO 1138 EDDY ST

ZIP CODE 02905

- 2 City Sewage Disposal Works 461-1865
- SERVICE RD BEGINS
- 1 Marr Scaffolding Co hse-bldg move-shoring contrs 467-3111
- SHIPYARD ST BEGINS
- 20 City Department Of Public Works Highway Dept 467-7950
- City Department Of Public Works City Yard 467-7950
- City Dept Of Public Wks (Sidewalk Dept) 467-7950

- City Sewer Maintenance Dept 467-7950
- City Sewer Department 467-7950
- City Environment Control 467-7950
- 30 City Municipal Garage 941-5120
- ELLIS RD BEGINS
- 37 City Sewage Pumping Station 461-1790
- 40 City Recreation Dept Mtee Div 421-7740
- 60 City Dept Traffic Engineering 781-4044
- 29 ALLENS AV INTERSECTS
- 70 Controller's Service & Sales Co Inc mtr control distr 781-7100
- ROLLIN BEGINS
- 125 Rotek Inc tool & die mkr 941-6465
- Jewelers Shipping Assn trucking 461-0100
- JOHNSON ST BEGINS
- 127 Turgeon E Construction Co Inc whse 461-0812
- 130 Ferguson Perforating & Wire Co 941-8876
- Ferguson Sales Agency wire cloth 941-8876
- PORTER BEGINS
- 150 Plumbers Building Inc Rooms
- 1 Plumbers Health & Welfare Pension Ofc 781-9371
- 2 Meeting Hall
- 5 Painters Local Union 195 A F L C I O business rep 467-7073
- 6 International Brotherhood Of Elec Wkrs Local 99 467-7020
- 8 Bricklayers & Masons Union No 1 Of R 1 467-7074
- 8 Shee: Metal Workers International Assn Local No 17 467-7075
- 9 Painters Health & Welfare Pension Office
- 10 Vacant
- CASS BEGINS

ESTEN ST —FROM 351 ORMS TO 370 SMITH

ZIP CODE 02908

- 2 Harrison Jennie B Mrs 421-8812
- Williams Charles
- 4★Sellers John
- Greenless Charlotte E Mrs 751-8415
- 4½ Donnelly Charles A Jr 521-2154
- Brown Grace L Mrs 521-4048
- 7 Bart Victoria Mrs 331-1446
- 8 Apartments
- 1 Perrotti Edw Jr
- 2 Kosinski Ernest
- 3★Lynch Wm 421-2507
- 4★Barlow Christelle
- 9 Lynch Margt @ 331-9365
- 10 Holt Merina Mrs @ 521-4909
- Owens Mary K 521-6197
- 11 Sarkisian Sarkis K @ 751-6108
- 12 Vacant
- Vacant
- Vasiliasukas Antonia Mrs 421-9575
- 13 Petronele Bruzais @
- 14★Peterson Rebt
- Martish Walter J 421-7161
- Gordon Marjorie Mrs
- 15★Respall Julia
- Augaites Constantine Mrs @ 421-0546
- ★Auga Viola
- 16★Kosinski Ernest
- Kosinski Josephine Mrs
- 17 Quinn Ellen Mrs 521-6710
- 20 Suzedelis Virginia R Mrs 331-1648
- ★Gaskell John
- 20½ Suzedelis Joseph @ 521-1652

ESTHER ST —FROM 32 VALLEY

ZIP CODE 02909

ETHAN ST —FROM 83 DANIEL AV TO FARMINGTON AV

ZIP CODE 02909

- 10 Knights Of Columbus-Hope Council 398 944-9760
- Saint Liberato Catholic Society 831-9786
- MERCY ST INTERSECTS
- 22 Di Mauro Mary C Mrs @ 944-8603
- Schiavulli Domenic 944-5006
- 25 Venticinque Thos W @ 944-6842
- 32 Careieri Elia A Mrs @ 944-4732
- SIMMONS ST INTERSECTS
- 35 Dimanna Anthony 943-0648
- Ardito Anthony 944-4035
- 38 Vacant
- 43 Zompa John @ 944-4643
- SOPHIA ST INTERSECTS
- 45 Grande Adeline 944-4740
- 49 Colardo Robt L @ 944-5182
- MURRAY ST INTERSECTS
- 67 Ramsey Dean
- Roberto Ruth S Mrs 944-3885
- Dalo Natale P @ 944-5629
- 08 La Rosa Connie Mrs

- Giar
- 71 Cam
- 72 Med
- Catc
- 75 Pias
- 78 Silve
- 80 Silve
- MOO
- 83 Gem
- De I
- 85 Mi-F
- Pitoc
- ★Ne
- SILVI
- 92 Rom
- Rem
- UNIO
- 105 Car
- Vac
- 106 Cit
- Zog
- 108 Vac
- Riv
- Can
- Dar
- 109 Pan
- ★G
- 115 Vac
- Can
- 119 Bac
- PRUD
- 137 De
- Vac
- 138 Cel
- 145 Pas
- 35
- ETNA S
- CLEV
- ZIP C
- BODE
- EUCLID
- 40 BR
- ZIP C
- 2 Esmer
- Timely
- 5 Stilser
- 7 Stilser
- 9 Shapia
- 10 Vaca
- Vaca
- 11★Chal
- 14 Manc
- 15 Mc C
- 17★Cool
- Mahl
- 18 Wilcc
- 19★John
- EUODR
- EDDY
- ZIP C
- 28 Keny
- 29 De S
- 31 Menc
- 32 Faust
- 34 Gons
- 35 No H
- 36 Enos
- 38 Souse
- 40 Bonn
- 42 Vaca
- 44 Botel
- 46 Travi
- 48 C &
- ★Pac
- 50 Pach
- EUGEN
- SPRI
- ZIP C
- 1 Ciaran
- 3 De Ma
- 5★Raga
- 8 Pitoccc
- Catell
- EUROP
- DE P
- ZIP C
- 4 Vacan
- No Re
- Guglie
- 6 Di Gi
- Vacan



EDDY ST 1969

128

Nunes Joseph A 461-1545  
 973 Vacant  
 975 Vacant  
 977 Vacant  
 Vacant  
 980 Merolla Machinery Whse  
 Vacant  
 Vacant  
 982 Mc Kenna Mary M Mrs 941-5894  
 984 Mc Neil Kathleen V © 461-6403  
 REEDER ST BEGINS  
 985 Paul's Liquors Inc 941-9883  
 987 Vacant  
 989 Vacant  
 990 Jim's Amoco 941-9464  
 991 Vacant  
 Vacant  
 993 Vacant  
 996 Hagopian Haigouhi Mrs ©  
 997 Carbonell Pedro D © 941-6923  
 998 Vacant  
 Vacant  
 999 Vacant  
 1000 Mulvey Wm J © 461-5976  
 1001 Mycroft Albert N 461-8851  
 Vacant  
 1002 Wilson Ernest © 461-7021  
 1003 Vacant  
 1005 Vacant  
 1009 Crn-Carr Social Club

ZIP CODE 02903  
 1011 Wonder Bar 941-9542  
 1015 Murphy Lillian A 461-1226  
 Vacant  
 Vacant  
 1017 Vacant  
 1025 Joyner C B & Co (Stge)  
 1033 Clayton John Jr © 421-9139  
 RICHARDSON BEGINS  
 1041 Brown Joseph W © 461-8487  
 Vacant  
 1043 Vacant  
 1047 Simonelli Louis ST1-6710  
 Vacant  
 1048 Vacant  
 1049 Pitocco Theresa Mrs © 941-8229  
 1050 Cardinal Fredk T  
 Zimmerly Marion Mrs 461-0601  
 1054 Meek Leonard W  
 Ferrara Carol A Mrs  
 Vacant  
 1055 Villella Nicholas © 941-6177  
 Vacant  
 1057 Pettway Doris Mrs 461-4795  
 NEBRASKA BEGINS  
 1060 Sebastian Alice R Mrs  
 Vacant  
 1061 Vacant  
 1062 Vacant  
 Vacant  
 1063 Vacant  
 Vacant  
 1065 Vacant  
 1066 Turbitt Richard J 781-3078  
 1067 Bradford Lawrence 461-2580  
 1068 Turbitt John J © 461-4794  
 1069 Johnson Janice L Mrs  
 1070 Vacant  
 1071 Vacant  
 1072 Vacant  
 1073 No Return  
 1074 Hazard W Chris  
 1075 Scott Geo R  
 1076 Shay Margt 1  
 Vacant  
 1078 Avallone Anna M Mrs  
 Shea Margt  
 Anderson Lawrence  
 1079 Vacant  
 Vacant  
 1081 A & D Liquors package store 941-9581  
 PAVILION AV INTERSECTS  
 1090 Chich Service Station 781-8950  
 1091 Kelly Ada M Mrs  
 Vacant  
 1093 Zolnierz Marion A Mrs  
 1095 Vacant  
 Vacant  
 1097 Vacant  
 1099 No Return  
 Vacant  
 1101 Roche Josephine E  
 BYFIELD BEGINS

ROUTE 95 INTERSECTS  
 RAILROAD INTERSECTS  
 1116 Texaco Inc gasoline 781-5650  
 1117 Hobin's Walt Garage 781-8802  
 Hobin Walter E © 781-1119  
 1119 Bailey Geo H 781-0738  
 Shippee Eliz Mrs  
 ALDRIDGE BEGINS  
 1120 Curran & Burton (Div Of Texaco) fuel  
 & range oil 467-8050  
 Paragon Oil division texaco 467-8050

ERNEST ENDS  
 1144 Federal Products Corp dials & gauges  
 781-9300  
 1147 No Return  
 CASS INTERSECTS  
 1150 Narragansett Electric Co (power plant)  
 1157 Cottage Tap Inc 781-8952  
 1159 Standard Sheet Metal Roofing Inc  
 461-9393  
 1163 Gesualdi Fiore  
 1165 Dessaint Steph A © 781-2546  
 PORTER INTERSECTS  
 1171 Barrientos Manuel E 461-7845  
 1173 Grady Margt E Mrs  
 Case Leslie J  
 1175 Roy Ruth  
 1177 Camp Charles J  
 Gardner Mabel E Mrs ©  
 1178 Lorac Co (Stge)  
 1179 Foster Dorothy C Mrs 467-8483  
 1181 Vacant  
 1183 Eddy Street Antiques 781-8740  
 1186 Brick Oven Bakeries (Whse)  
 1188 Vacant  
 Rear P & J Auto Service 781-9430  
 JOHNSON ST INTERSECTS  
 1189 Eddy Street Antiques (Stge)  
 1193 Tony's Tap 941-9808  
 1195 Rossi's Diner 941-9414  
 1197 Serydynski Joseph furn mover 941-0727  
 Glusman Anthony  
 Webber Clifton H  
 Perry Margt Mrs  
 Bobowicz Anna Mrs 461-1830  
 Sharolan Setrak V  
 1199 Linton P & A Co Inc 941-1865  
 Otis Co jwly mfg 461-8131  
 Paris Enameling Co Inc 781-5885  
 BAKER INTERSECTS  
 1200 Wilson Building  
 Almac's Inc gro 781-4073  
 Big Chief Corp real est 467-4414  
 Frye's Cigar Co  
 Jack's Luncheonette  
 Wilson's Chief Barber Shop  
 Wilson Marine Co boat dealers 467-4414  
 Lloyd Products Co elec equip 467-8062  
 1201 Laird De Vou Inc abrasive sups whol  
 781-6282  
 1203 Boyd Thos E  
 Dupree Jean M Mrs  
 1209 Vacant  
 Rear Vacant  
 1215 Vacant  
 CHAPMAN ST INTERSECTS  
 1225 Moore Arth H  
 Scavitti Matilda Mrs  
 1227 Carolone Peter Jr 781-4361  
 TORONTO AV ENDS  
 JILLSON ST BEGINS  
 1243 Bowerman Geo A 781-6849  
 1245 Butterbaugh Gerald  
 Brown Lillian S Mrs 781-2638  
 1247 Fitzpatrick Wm J 461-4828  
 Vacant  
 1249 De Mizio Anthony ©  
 1251 Theodore Thos © 941-8114  
 Kent Constnace A Mrs  
 1253 Laurendeau Joseph R 781-9784  
 1255 Syveston Lee  
 Johnson Jennie C 781-0655  
 1257 Talmage Ruth 941-4159  
 GEORGIA AV ENDS  
 1261 Plunkett James T 941-7356  
 1263 Geardner Joseph F Jr © 467-4562  
 BROOM ST BEGINS  
 1268 Winsor & Jerauld Mfg Co textile  
 machinery 781-2341  
 CAROLINA AV ENDS  
 1271 Arpin Eug H ©  
 1277 Tucci Antonio © 781-0625  
 Tucci Anthony Jr 941-2652



ERNEST ST 1969

139

ERASTUS ST—Contd

- Philips Howard L
- Pence Ida Mrs 351-8131
- 110 Guimond Valerie G © 351-0138
- 114 Felice Albert J ©
- 116 Hebert Francis A
- 118 Independent Taxi 351-8237
- Leone Michl © 351-8237
- 120 Leone Plumbing & Heating Co 861-9582
- Leone Frank 861-9582
- HENDRICK ST ENDS
- 122 Colavecchio Joseph ©
- 124 De Petrillo Guido © 351-7951
- 126 Doyle Robt E
- 128 Volunte Charles © 351-3247
- 130 Di Biasio Albert C © 351-9613
- 140 Simeone Nicholas P © 831-2979
- POMONA AV ENDS
- 144 Mainelli Luigi A © 351-6849
- 146 Christiansen Arth O carp © 861-3955
- 148 Peck John R Rev 521-9733
- 150 Manocchio Violay Mrs © 831-4155
- 157 De Vincenzo Vincent 272-4524
- No Return

38

ERICSSON PL —FROM 581 ATWELLS  
AV TO 353 VALLEY

ZIP CODE 02909

50

ERIE ST —FROM 440 SHARON TO 108  
ROME AV

ZIP CODE 02908

- 14 Marchetti Anthony S © EL1-6718
- 19 Lanni Florinda E Mrs © 831-0667
- 20 Salem Thos J © 861-1498
- 21 Buonomano Virginia M Mrs © 274-8731
- 23 Forte Mario © JA1-2570
- 28 Gemma Enrico A © 274-4972
- 34 Vellucci Pasco © 521-5265
- 40 Calise Santa M Mrs © TE1-5069
- Calise Robt
- 41 Thibault Raymond G ©
- 45 Iarocci Michl © TE1-6195
- 46 D'Arezzo Richd E © 272-4834
- 49 Quick Wm © 831-6579
- 59 Clancy Wm P © TE1-2414
- 68 Picozzi Alf J © 831-7592
- 73 Mierzwa Dorothy R © 521-2577
- 81 Morrone Wm ©
- 85 Folgo Edmund N
- 89 Ruggiero Pasquale © 831-6333
- 92 Antonelli Aquilino C © TE1-5503
- 97 Di Mauro Carmela Mrs © 274-0099
- 101 Giusti Costantino J © UN1-5871
- 102 Baccala Nicholas A © 274-6070

20

ERNEST ST —FROM BEYOND  
SHIPYARD ST WESTERLY TO 1136  
EDDY ST

ZIP CODE 02905

- 2 City Sewage Disposal Works 461-1865
- ELLIS BEGINS
- SERVICE RD BEGINS
- SHIPYARD ST BEGINS
- 20 City Department Of Public Works
- Highway Dept 467-7950
- City Department Of Public Works City
- Yard 467-7950
- City Dept Of Public Wks (Sidewalk Dept)
- 467-7950
- City Sewer Maintenance Dept 467-7950
- City Sewer Department 461-1865
- 30 City Municipal Garage 941-5120

- City Police Department Garage 421-3121
- 37 City Sewage Pumping Station 461-1790
- 40 City Recreation Dept Mtce Div 421-7740
- 50 City Division Of Public Buildings 421-7740
- City Architect 421-7740
- ALLENS AV INTERSECTS
- 70 Reynolds Inc mach tool sla 781-3199
- ROLLIN BEGINS
- 125 Rotek Inc tool & die mkr 941-6465
- Jewelers Shipping Assn trucking
- HO1-0100
- JOHNSON BEGINS
- 127 Turgeon E Construction Co Inc whse
- 461-0812
- 130 Ferguson Perforating & Wire Co
- 941-8876
- Ferguson Sales Agency wire cloth
- 941-8876
- PORTER BEGINS
- 150 Plumbers Building Inc
- Rooms
- 1 Plumbers Health & Welfare Pension Ofc
- 781-9371
- 2 Controllor Service & Sales Inc elec
- supplies 781-7100
- 3 Boyd James K Co (Overflow)
- 4 Boyd James K Co whol valves pumps
- 781-6638
- 4 Knight & Tiffany Co Inc valves pulps
- whol 781-6688
- 5 Ricketts C F Co (Overflow)
- 6 Ricketts C F Co food brokers 781-0265
- 7 Ricketts C F Co (Overflow)
- 8 Ricketts C F Co (Overflow)
- 9 Ricketts C F Co (Overflow)
- 10 Plumbers Local 28 781-8477
- CASS BEGINS

ESTI

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68 V

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71 Ca

72 M

Ca

75 Pi

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78 Si

80 Si

MC

83 G

G

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85 M

Pi

Se

AI

SIL

92 N

Rc

UN

105 C

E

106 C

F

108 C

V

C

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109 F

M

115 C

C

119 E

PR

137 I

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138 C

145 F

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BO

27A

ESTEN ST —FROM 351 ORMS TO 370  
SMITH

ZIP CODE 02908

- 2 Gallagan Walter
- Harrison Jennie Mrs
- 4 Vacant
- Greenless Charlotte E 751-5237
- 4½ Donnelly Charles A Jr 521-2154
- Vacant
- 7 Bart Joseph 331-1446
- 8 Apartments
- 1 Vacant
- 2 Vacant
- 3 Vacant
- 4 Vacant

STREET CONTINUED

- 9 Lynch Margt © 331-9365
- 10 Holt Marina E Mrs © 521-4909
- Owens Mary K 521-6197
- 11 Sarkisian Sarkis K © 751-6108
- 12 Cyronak Helen E Mrs © 521-6979
- Burgess Donald
- Vasiliauskas Helen Mrs Mrs
- 13 Marks Charles R
- Petronele Bruzas ©
- 14 Howe Beatrice M Mrs
- Martish Walter J 421-7161
- Alexion Charles 331-3738
- 15 Schouler Mary E Mrs 751-8927
- Augaites Constantine Mrs 421-2670
- 16 Mojkowski Helen O Mrs
- Kosinski Josephine Mrs
- 17 Quinn Ellen Mrs 521-5710
- 20 Suzedelis Joseph Jr
- Rear Suzedelis Joseph © 521-1652
- Vacant

PROVIDENCE CARPET



EDDY ST 1964

Target Street	Cross Street	Source
EDDY ST--CONTO		127
987 REOWDDD RESTAURANT		121
989 BRADY EMMA MRS 461-2791		121
991 VACANT		
PETERSON ALBERT F 5L1-5177		
HOOGETTS FREQ		
993 GEORGE'S BARBER SHOP		
996 WILLIAMS HAROLD W11-2756		
997 CARBCNELL PEDRD D • 941-6855		12
998 HAGOPIAN MALCOLM • 461-6971		12
VACANT		
999 KILLIBREW HUGH 461-5073		
HUSBAND RICHD J • 941-6371		121
HERRINGTON MARVIN		
1000 MULVEY WM J • 461-5976		121
1001 MYCRCFT ALBERT 461-8851		121
SHAW MARGT MRS		
1002 WILSON ERNEST • 461-7021		70
1005 CHAPPELL'S NEWS SERVICE		
941-C343		121
1009 CHERV BAR 941-9582		121
---THURBERS AV INTERSECTS		121
1011 WDNDR BAR 941-9542		121
1015 MURPHY MARY V MRS 461-1226		121
VIERA BEATRICE K MRS 941-5480		121
1017 CARRY DAVID		
CORRY DAVID JR		
1025 ATLAS METAL CO 461-7832		12
1032 BUCCI ANGELO		12
CARCN NARDLEON 781-4813		12
1033 CLAYTON JOHN JR • 421-9139		12
		20
---RICHARDSON BEGINS		
1036 COTRONE FRANK 461-6579		12
1041 MELLO GEO 461-9103		13
MC GEE MARJORIE MRS 781-2077		13
1042 CAVALLARD CARL • 781-9609		13
1043 EVANS EDITH E MRS • 781-9524		13
1046 TURNER HUOSON 941-6958		13
VACANT		
1047 O'BRIEN RAYMOND J 461-3376		13
MC LAUGHLIN WM F		
1048 VACANT		
1049 PITOCO ALBERT • 781-B229		
1050 CARDINAL FRED T		
ZIMMERLY MARION MRS 461-0601		
1054 BENARD LOUIS F JR		
REILLY WALTER F • 461-9167		
1055 VILLELLO NICHCLAS • 781-6177		
FOGELL CHARLES A JR		
1057 EGGLESTON RAYMONO L 461-3307		
---NEBRASKA BEGINS		
1060 SEBASTIAN ALICE R MRS 941-2841		
BRADFORD LAWRENCE 941-2841		
1061 MATTHEWS GLEN 941-155D		
1062 BRAXTON CARTER		
GARRETT SALLY MRS		
VACANT		
1063 BRIGGS GEO C • 941-9017		
DE CAPRIC PASQUALE W11-0801		
1064 GORMAN RUBIN PLMB • 781-5742		
VACANT		
1065 CUBY JOSEPH		
1066 TURBITT RICHARD J 781-3D78		
1067 FAELLA ANTHONY		
1068 TURBITT JOHN J • 461-4794		
1069 LEMOI FREQ J 941-6195		
1070 PROVIDENCE TEXTILE REPAIR CO		
REPAIR TEXTILE MACH PARTS		
781-1356		
1071 GILLERAN MARY A • 461-4815		
1073 MULLEN ALVIN 941-C193		
1074 VACANT		
1075 RICHARDS ESTHER Z MRS •		
941-B64B		
1076 AVALLONE VINCENT •		
SHAY MARGT I MRS		
1078 CIANCARULO FLORENCE V MRS		
781-B419		
1079 HACHADORIAN THERESA MRS		
941-8671		
VACANT		
1080 VACANT		
VACANT		
1081 A & O LIQUORS INC PACKAGE		
STORE 941-9581		
1082 HEBBER CLIFTON H		
---PAVILION AV INTERSECTS		
1090 JOHN'S SERVICE STATION		
941-9516		
1091 ELOERKIN ALTHEA A MRS 461-6630		
VACANT		
1093 LEARY WILLIE I 461-9161		
1095 MEGAUGHIN GEO 461-3484		
ENGSTROM ARNOLO E		
1097 MC LACHLAN SARAH J MRS •		
941-2060		
1099 LOMAX JOHN W 781-2889		121
GENCRCN EARL F 461-7362		121
---RAILROAD INTERSECTS		
1101 ROCHE JOSEPHINE E		121
---BYFIELD BEGINS		
1116 TEXACO INC PETROLEUM PRODUCTS		121
781-5650		121
1117 HOBIN'S WALT GARAGE 781-B802		
HOBIN WALTER E • 781-1119		
1119 BAILEY GEC H 781-D73B		12
HATHAWAY JAMES		12
---ALDRIDGE BEGINS		
1120 CURRAN & BURTON INC FUEL AND		121
RANGE OIL 467-BD5D		
1121 TURNER RICHO • 781-4783		121
VACANT		
		70
---ERNEST ENDS		
1144 FEDERAL PRODUCTS CORP DIALS &		121
GAUGES 781-9300		121
1147 CARRCLL NORA A •		121
---CASS INTERSECTS		
1149 CARLSON ALBERT B • 781-6599		121
1150 NARRAGANSETT ELECTRIC CO		121
1157 COTTAGE TAP INC 781-8952		121
1159 STANDARD SHEET METAL ROOFING		
INC 461-9393		12
1186 BRICK OVEN BAKERIES (WHSE)		12
1163 GESUALDI FIORE		12
1165 DESSAINT STEPH A • 781-2546		12
---PORTER INTERSECTS		
1171 DOSTER WM D		
1173 VACANT		
VACANT		
1175 VACANT		
1177 VACANT		
GARDNER MABEL MRS • 781-1376		13
1178 CARDIN MFG CO INC JWLRS SUP		13
461-213C		13
1179 CRUDELE JOHN F 781-8378		13
1181 FOSTER EDW D 467-8483		
1183 VACANT		
---JOHNSON INTERSECTS		
1186 NO RETURN		
1188 BIG CHIEF SERVICE STATION		13
941-9423		
REAR P & J AUTO SERVICE AUTO REPR		13
781-943C		13
1189 LITTLE FURNITURE STORE		
941-C391		13
1193 TONY'S TAP 941-9808		12
1195 FALCO'S RESTAURANT 941-9841		13
1197 AVETA NANCY C MRS 467-5347		13
SERYCYNSKI JOSEPH		
RICCI AGNES MRS 461-6835		13
PERRY MARGT MRS		13
BDBCWIECZ ANNA MRS 461-1830		13
SHARCIAN SETRAK V 941-7900		
1199 LINTON P & A CO INC 941-1865		13
CTIS CO JWLRY RET 461-8131		
PARIS ENAMELING CO INC		
781-5885		13
---BAKER INTERSECTS		
1200 WILSON BUILDING CFC BLOC		13
ALMAC'S INC GRC & MEATS		13
781-4C73		
BIG CHIEF CORP GRC & MEATS		
HCI-7000		
FRYE'S CIGAR CO		13
LOU'S LUNCHEONETTE		13
WILSON'S CHIEF BARBER SHOP		
WILSON MARINE CO BOAT DEALERS		
461-7000		13
WILSON REALTY INC REAL EST		13
461-7000		
1201 LAIRD DE VCU INC ABRASIVE SUPS		13
781-6282		13
1203 MARTIN WALTER JR		
MARTIN WALTER E		
1209 VACANT		
REAR FROLANDER GUSTAV H •		
1215 VACANT		
---CHAPMAN INTERSECTS		EC
1217 VACANT		
1225 VACANT		
VACANT		
1227 CARLONE PETER JR 781-4361		
---JILLSON BEGINS		
1243 BOWERMAN GEO A 781-6849		EC
1245 BROWN LILLIAN S MRS 781-2638		
GOULET COORA M MRS W11-8654		
1247 FITZPATRICK WM J		10
1249 DE MIZIO ANTHONY • 781-5171		
1251 THEODORE THOS • 941-8114		15
MARTINS EOGAR D 781-6867		
1253 LAURENDEAU JOSEPH R 781-9784		45
1255 HYNES WM T 781-4192		10
SYBERSON LEAH MRS		



ERNEST ST 1964

137

ERASTUS ST--CONTO

80  
 ---MONTRORSE ENOS  
 76 DI NITTO CARMINE • 831-5542  
 80 GRENON MARCUS A JR • 351-5895  
 82 CAROEN WILFRED H 521-2052  
 88 CUSICK DONALD J  
 EGAN JAMES T • 831-2685  
 ---FAIRMOUNT AV INTERSECTS  
 ---YALE AV INTERSECTS  
 106 PAQUIN ALBERT R 351-7957  
 GOULET JEAN P 521-4974  
 SAUTE CLAIRE M MRS  
 110 ROSS ALBINA MRS • 351-0138  
 114 DEVINE ALICE H MRS 351-6746  
 116 RANCOURT JOSEPHINE MRS •  
 351-4094  
 118 LEONE MICHL • 351-8237  
 120 LEONE FRANK 861-9582  
 ---HENORICK ENOS  
 122 COLAVECCHIO JOSEPH • 351-7951  
 124 DE PETRILLO GUIDO • 351-7951  
 126 OCYLE ROBT E  
 128 VOLONTE CHARLES • 351-3247  
 ---POMONA AV ENOS  
 130 DI BIASIO ALBERT C • 351-9613  
 140 SIMEONE NICHOLAS P • 831-2979  
 144 MAINELLI LOUIGI • 351-6849  
 146 CHRISTIANSEN ARTH O • 351-9045  
 148 MARTIN THOS P 351-5820  
 150 MANOCCHIO PASQUALE • 831-4155  
 157 NORCINI IOA • 351-9063

38  
 ERICSSON PL -FROM 581 ATWELLS AV TO  
 353 VALLEY

50  
ERIE ST -FROM 440 SHARON TO 108 ROME AV

14 MARCHETTI ANTHONY S EL1-6718  
 19 LANNI FLORINOA E MRS • PL1-7165  
 20 OOUHALL OOHINICK P • TE1-3888  
 21 BUONOMO VITO O BLOC CONTR •  
 FL1-8731  
 23 FORTE MARIO • JA1-2570  
 28 GEMMA ENRICO A • FL1-9472  
 34 VELLUCCI PASCO • 521-5265  
 40 CALISE SANTA M MRS • TE1-5069  
 CALISE ROBT  
 41 VAN WESTENOORP KENNETH H •  
 TE1-6339  
 45 IAROCCI MICHL • TE1-6195  
 49 GROSSI VIRGIL • UNI-7755  
 59 CLANCY WM P • TE1-2414  
 68 PICOZZI ALF J • DE1-6324  
 73 BADESSA SALVATORE P • JA1-0746  
 81 UNOER CONSTN  
 85 CARNEVALE ANTHONY • 861-2586  
 89 RUGGIERO PASQUALE • TE1-6333  
 92 ANTONELLI AQUILINO C • TE1-5503  
 97 IANNETTA ALBERT P • 861-4953  
 101 GIUSTI COSTANTINO J • UNI-5871  
 102 BACCALA NICHOLAS A • EL1-6070

20  
ERNEST ST -FROM ELLIS TO 1136 EOOY

2 CITY SEWAGE OISPOSAL WORKS  
 VACANT  
 ---ELLIS BEGINS  
 20 CITY DEPARTMENT OF PUBLIC WORKS  
 HIGHWAY OIVISION  
 CITY DEPARTMENT OF PUBLIC WORKS  
 CITY YARD  
 CITY SEWER MAINTENANCE DEPT  
 CITY SEWER DEPARTMENT  
 30 CITY MUNICIPAL GARAGE  
 CITY POLICE DEPARTMENT GARAGE  
 37 CITY SEWAGE PUMPING STATION  
 40 CITY RECREATION DEPT MICE DIV  
 421-7740  
 50 CITY DIVISION OF PUBLIC  
 BUILOINGS  
 CITY ARCHITECT

---ALLENS AV INTERSECTS  
 70 HANSCOM H F & CO INC (BR) TOOL  
 MAKING OIV 941-1456  
 CONTROLLER SALES & SERVICE CO  
 ELFC SUPPLIES 781-7100  
 ---ROLLIN BEGINS  
 ---JOHNSON BEGINS  
 125 NATIONAL TRANSPORTATION CO  
 TRUCKING 461-5451  
 128 TURGEON E CONSTRUCTION CO INC  
 WHSE 461-0812  
 130 FERGUSON PERFORATING & WIRE CO  
 941-8876  
 150 GOUDIE R A & SONS INC TEXTILE  
 ENGRAVERS 781-1123  
 ---PORTER BEGINS  
 ---CASS BEGINS

274  
ESTEN ST -FROM 351 DRMS TO 370 SMITH

2 MESSIER MARY MRS 521-6916  
 GILOTONE DONALO 751-1488  
 4 MC LAUGHLIN MARY E MRS 861-3567  
 MC CONNELL ELIZ MRS 331-0851  
 4½ WILLIAMS PAUL 351-0276  
 QUINN RAYMCO  
 7 LYNCH EOW J 351-4233  
 8 COHEN MAX 751-4413  
 APICE ALPHONSE  
 HARTWICK KENNETH W  
 NO RETURN  
 9 LYNCH FRANCIS F • 751-0908  
 10 HGLT MARINA E MRS • 521-4909  
 OWENS MARY K 521-6197  
 WILLIAMS ANTOINETTE MRS 331-4116  
 11 SARKISIAN SARKIS K • 751-6108  
 12 CYRONAK DANL P • 521-6979  
 VACANT  
 TURLO UISOLA •  
 13 O'NEIL WM UNI-5513  
 SAINT ANGELO HELEN MRS 751-3923  
 14 HOWE CHRISTOPHER H 521-9497  
 MARTISH WALTER J 421-7161  
 ALEXION CHARLES  
 15 VACANT  
 AUGAITES KATH MRS  
 AUGA VACLOVA  
 16 MOJKOWSKI HELEN O MRS 521-0846  
 ZIELINSKI ELEANOR F MRS 331-2558  
 NO RETURN  
 17 QUINN ELLEN MRS  
 20 KOLB CARLINE MRS  
 REAR SUZELOELIS JOSEPH • 521-1652

38A  
ESTHER ST -FROM 32 VALLEY

39  
ETHAN ST -FROM 83 DANIEL AV TO FARMINGTON AV

10 SAINT LIBERATO CLUB  
 SAINT LIBERATO CATHOLIC SOCIETY  
 831-9786  
 ---MERCY INTERSECTS  
 22 DI MAURO MARY C MRS •  
 SCHIAVULLI OCMENIC 351-4891  
 32 RUSSO PASCO • 521-3636  
 ---SIMMONS INTERSECTS  
 35 MARTINELLI ANTHONY 351-8982  
 AROITO ANTHONY E 351-6453  
 38 VACANT  
 ---SOPHIA INTERSECTS  
 43 ZOMPA JOHN • 351-7245  
 45 GRANDE AOELINE 521-3750  
 49 COLAROO ROBT L • 351-6592  
 ---MURRAY INTERSECTS  
 67 DALO EDMUND N 521-7983  
 ROBERTO RUTH S MRS 861-4226  
 DALO NATALE P • 831-4224  
 DALO VITO LANDSCAPE GONR  
 831-4224  
 68 D'ABATE JOHN O 351-1819

MAURICE G SMITH



EDDY ST 1961

138

EDDY—Contd	Simmons Geo R	Hathaway Jas	120
962 Grasso Ernest S ΔST1-5153	1047 Stanwood Mabel E Mrs ΔW11-6522	<b>Aldrich st begins</b>	
965 Teixeira Fustino @ ΔW11-1781	1048 Kidd Helen Mrs	1121 Turner Richd @ ΔST1-4783	120
<b>Haswell st begins</b>	1049 Pitocco Albert @ ΔST1-0442	<b>Ernest st ends</b>	120
969 Madison Naomi Mrs ΔW11-1440	1050 Cardinal Fred T Zimmerly Marion Mrs ΔHO1-0601	1144 Federal Products Corp gauge mfrs ΔST1-9300	Cha 121 121 122
<b>Autumn st begins</b>	1054 Reilly Walter F @ ΔHO1-9167	<b>Cass ends</b>	
970 Machado John @ ΔST1-9033	1055 Vilella Nicholas @ ΔST1-5049	1147 Carroll Nora A @	
Larson Lennart O Loper Sarah	1057 Leeder Urban A ΔHO1-7451	1149 Carlson Albert B @ ΔST1-6599	122
975 Peter's Market	<b>Nebranka st begins</b>	1150 Narragansett Elec Co	
977 Williams Harold H	1060 Jeff Fredk F ΔW11-7883	1157 Cottage Tap ret beer ΔST1-8952	Tor Jill 124
980 Hall Austin N	Carroll Eliz L Mrs ΔW11-7883	1160 Nichols Helen ΔST1-0919	
982 McKenna Mary Mrs	Barnes Sally A Mrs	Ford Chas ΔHO1-4710	124
<b>Reeder st begins</b>	1061 Tessitore Fernando V	Cole Mary I Mrs ΔHO7-3517	
984 McNeil Kathleen V @ ΔHO1-6403	1062 Adams John U	1161 Standard Sht Mtl Co ΔHO1-9393	124
985 Gilmore Milton A ΔW11-0585	1063 Pelopida Elisco @ ΔW11-8316	1162 Olson Olie W ΔHO1-0420	124
986 Veteran's Auto Serv ΔW11-9528	DeCaprio Pasquale	1163 Sweet Geo	125
987 Annex Liquor Store ΔW11-9883	1064 Gorman Rubin @ plmb ΔST1-5742	1165 Dessaint Steph A @ ΔST1-2546	
989 Brady Emma Mrs	Bradford Lawrence	<b>Porter st crosses</b>	
991 Peterson Albert F ΔST1-5177	1065 Robb Merrill H jr	1171 Potter Geo L @ ΔHO1-7165	125
Bennett Donald T	1066 Turbitt Richd J ΔST1-3078	1173 Guckian Patk ΔST1-0223	125
993 Berberian Kachadoor S barber	1067 Faella Anthony	1175 Vacant	
Standard Venetian Blind Co ΔW11-4040	1068 Madden Alan E ΔHO7-8148	1177 Miller Viola Mrs ΔST1-7076	125
995 Vacant store	1069 Lemoi Fredk J ΔW11-6195	Gardner Mabel Mrs @ ΔST1-1376	Geo 126
996 Tripp Geo E ΔHO1-5307	1070 Vacant	1178 Cardin Mfg Co sample cases ΔHO1-2130	126
997 Carbonell Pedro D @ ΔW11-6859	1071 Gilleran John J @ ΔHO1-4815	1179 Crudelle John F ΔST1-8378	Bro 126
998 Hagopian Malcolm @ ΔHO1-6971	1073 Foley Richd F ΔHO1-3832	1181 Foster Edw O ΔHO7-8483	
Barclay Danl W ΔST1-3141	1074 Vacant	1183 Ideal Knife Co Inc ΔW11-3426	127
999 Husband Richd J B @ ΔW11-6371	1075 Richards Walter J @ ΔST1-2187	<b>Johnson st crosses</b>	127
1000 Mulvey Wm J @ ΔHO1-5976	1076 Avallone Vincent @ Shea Margt I	1186 Fontaine Hector A distr brick oven bakeries	
1001 Young Grace I Mrs ΔW11-6131	1078 Cianciarulo Florence V ΔST1-8419	1188 Big Chief Serv Sta ΔW11-9423	Car 128
Shaw Margt Mrs	1079 Hachadorian Theresa Mrs ΔW11-8671	rear P&J Auto Service ΔST1-9430	
1002 Wilson Ernest @ ΔHO1-7021	1080 Tameo Jeanne Mrs	1189 Little Furn Store ΔW11-0391	128
1003 Chappell's News Serv ΔW11-9869	1080 Fowler Virginia D Mrs	<b>Johnson crosses</b>	128
1005 Vacant	1081 Jackson's Package Store ΔW11-9581	<b>Baker crosses</b>	
1006 Cook Herbert E	1082 Vacant	1193 Tony's Tap ret beer ΔW11-9308	128
1008 New System Restr	<b>Pavilion av crosses</b>	1195 Falco's Restr ΔW11-9841	128
1009 Miracle Bar liquors ΔW11-9481	1090 John's Serv Sta ΔW11-9516	1197 Secrydinski Jos Ricci Agnes Mrs ΔHO1-6335	Call 128
1010 Wonder Bar ΔW11-9542	1091 Russen Anthony E Upton Carl	Patnaude John	
<b>Thurbers av crosses</b>	1093 Eggleston Raymond L	Perry Margt Mrs	
1011 Vacant	1095 Ferguson Mary J Mrs ΔW11-4012	Bobowiecz Anna Mrs ΔHO1-1830	129
1012 Vacant	Slater Donald	Reyman Virginia M Mrs ΔHO1-0776	129
1015 Murphy Mary V Mrs ΔHO1-1226	1097 Kiernan Edw J ΔST1-5096	1199 Linton P&A Co Inc jewelry mfrs ΔW11-1865	129 129 129
Viera Beatrice Mrs ΔW11-5480	1099 Lomar John W ΔST1-2889	SKM Mfg Inc jwlry mfrs ΔHO1-2319	New 129
1017 Corry David ΔST1-8351	Gendron Earl F ΔHO1-7362	Paris Enameling Co Inc ΔST1-5885	129
1025 Atlas Metal Co ΔHO1-7832	1100 Pawtucket Ready Mixed Concrete Co ΔW11-6121	1200 Big Chief Corp Wilson Marine Co boat bldrs	130 130 130
1029 Vacant	<b>Railroad crossing</b>	Almac's Inc gro and meats ΔST1-4073	130
1032 Bucci Angelo	1101 Roche Josephine E	Wilson's Chief Barber Shop	130
Caron Napoleon ΔST1-4813	1111 S&B Motors ΔW11-6030	Wilson Realty Inc ΔHO1-7000	131
1033 Percival Stafford H @ ΔST1-3579	<b>Byfield st begins</b>	Lou's Luncheonette	131
<b>Richardson st begins</b>	1113 Janicki Edith auto repr ΔST1-4211	Frye's Cigar Co	Mor 131
1036 Vacant	1116 Texaco Inc petroleum products ΔST1-5650		
1041 Mello Geo ΔHO1-9103	1117 Hobin's Walt Garage ΔST1-8802		
Gagnon Violet S Mrs @ ΔST1-2077	Hobin Walter E @ ΔST1-1119		
1042 Cavallaro Carlo @	1119 Bailey Geo H ΔST1-0738		
1043 Evans Edith E Mrs @ ΔST1-8524			
1046 Gordon David ΔST1-4403			

MAGUIRE ROOFING COMP



ERNEST ST 1961

- 144 Mainelli Louis ©  
ΔEL1-6849
- 146 Christiansen Arth O ©  
ΔEL1-9045
- 148 Martin Thos P  
ΔEL1-5820
- 150 Manocchio Pasquale ©  
ΔTE1-4155
- 157 Norcini Orsolina Mrs ©  
ΔEL1-9063

38

**ERICSON PL—From 581  
Atwells av to 353 Valley,  
wd 13**

50

**ERIE—From 456 Sharon to  
Rome av, wd 5**

- 14 Marchetti Anthony S ©  
ΔEL1-6718
- 19 Lanni Florinda E Mrs ©  
ΔPL1-7165
- 20 Doughall Dominick P ©  
ΔTE2-3888
- 21 Buonomano Vito D © bldg  
contr ΔEL1-8731  
Florio Archie F
- 23 Forte Mario © ΔJA1-2570
- 28 Gemma Henry ©  
ΔEL1-4972
- 40 Calise Santa Mrs ©  
ΔTE1-5069
- 41 vanWestendorp Kenneth H  
ΔTE1-6339
- 45 Iarocci Michl ©  
ΔTE1-6195
- 49 Grossi Virgil ©  
ΔUN1-7155
- 59 Clancy Wm P ©  
ΔTE1-2414
- 68 Picozzi Alf J ©  
ΔDE1-6324
- 89 Ruggiero Pasquale ©  
ΔTE1-6333
- 92 Antonelli Aquilino C ©  
ΔTE1-5503
- 102 Baccala Nicholas A ©  
ΔEL1-6070

20

**ERNEST—From Ellis to  
1136 Eddy, wds 9, 10**

- 2 Providence Sewage Dis-  
posal Wks ΔHO1-1790  
Gammino A M Constn Co  
Inc (yd)
- 20 Providence City Of—  
Dept Public Wks-City  
Yd ΔHO7-7950
- 30 Providence Municipal  
Garage ΔW11-5120  
Providence City Of—  
Police Dept Garage  
ΔW11-5120
- 37 Providence City Of—  
Sewer Dept ΔHO1-1865  
Sewer Mtce Dept  
ΔHO1-4537  
Sewage Pumping Sta  
ΔHO1-1790
- Allen's av crosses**
- 40 Providence City Of—  
Board of Recreation
- 50 Providence City Of—  
Div of Pub Bldgs
- 54 Providence City Of—  
City Archt
- 70 Anderson Hugold Inc spl  
machinery mfrs  
ΔST1-5161  
Anchor Tool Co  
ΔST1-5152  
Controller Sls & Serv  
Co elec sups  
ΔST1-7100
- Rollin st begins  
Johnson st begins

- 125 Hemingway Bros Inter-  
state Trucking Co  
ΔW11-4704
- 128 Turgeon E Constn Co  
(whse) ΔHO1-0812
- 130 Ferguson Perforating  
& Wire Co ΔW11-8876

**Porter st begins**

- 150 Goudie R A & Sons Inc  
textile engrs  
ΔST1-1123

**Cass st begins**

68  
71  
72

27-A

**ESTEN—From 351 Orms to  
370 Smith, wd 12**

- 2 Gilottone Donald  
ΔPL1-1488  
Messier Mary Mrs  
ΔJA1-6916
- 4 McLaughlin Marie I Mrs  
ΔUN1-3567  
Super Frank E ΔUN1-1639
- 4½ Scargill Anna T Mrs  
ΔPL1-7276  
William Paul
- 7 Lynch Edw J ΔEL1-4233
- 8 Kinnes Annie Mrs  
Peles Eliz  
Katt Robt H
- 9 Lynch Francis F ©  
ΔPL1-0908
- 10 Holt Merina E Mrs ©  
ΔJA1-4909  
Owens Mary K  
ΔJA1-6108
- 11 Sarkisian Sarkis K ©  
ΔPL1-6108
- 12 Cyronak Danl P ©  
Polaski Richd W  
ΔJA1-6979  
Duillo Voscira
- 13 O'Neil Wm  
StAngelo Helen Mrs  
ΔPL1-3923
- 14 Winn Mary E ΔUN5-9108  
Leyden Michl J  
ΔPL1-5472  
Alexion Chas
- 15 Lebuscha Eleanor  
Argaitis Kath
- 16 Tully Anna E Mrs  
ΔPL1-7786  
Browne Irene M
- 17 Quinn Ellen Mrs
- 20 Kolb Caroline Mrs  
rear Suzedelis Jos R ©  
ΔJA1-1652

78  
80  
Mc  
83  
85  
Sl  
92

Un  
105  
106  
108

109  
111

Pr  
137  
138  
141

38  
**ESTHER—From 32 Valley,  
wd 7**

39

**ETHAN—From 83 Daniel av  
to Farmington av, wd 7**

- 10 StLiberato Club  
StLiberato Cath Soc  
ΔTE1-9786
- Mercy st crosses**
- 22 DiMauro Frank ©  
Schiavulli Domenic  
ΔEL1-4891
- 32 Russo Pasquale ©  
ΔJA1-3636
- Simmons st crosses**
- 35 Licciardi Jos ΔTE1-4233
- 38 Vacant
- Sophia st crosses**
- 43 Zompa Donata Mrs ©  
ΔEL1-7245
- 45 Grande Adeline  
ΔJA1-3750
- 49 Colardo Robt L ©  
ΔEL1-6592
- Murray st crosses**
- 67 Dalo Edmund N  
ΔJA1-7983

EU  
2  
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17  
18

## EDDY ST 1957

NS UP TO \$1,000 ON OWN SIGNATURE, AUTO OR FUR

996 Tripp Geo E	1113ΔSportsman's Tavern
997ΔCarbonell Pedro D ©	1116ΔTexas Co The
998ΔHagopian Malcolm ©	petroleum prods
ΔBarclay Danl W	1117ΔHobin's Walt Garage
999ΔHusband Richd J B ©	ΔHobin Walter E
Johnson Leonora Mrs	1119 Bailey Geo H
1000ΔMulvey Wm J ©	ΔRichardson Theodore
1001ΔCardinal Fred J	<b>Aldrich st begins</b>
Young Grace I Mrs	1121ΔTurner Richd
Shaw Margt Mrs	<b>Ernest st ends</b>
1002ΔWilson Ernest ©	1144ΔFederal Prods Corp
1005 Fred's Variety	tool mfrs
1006ΔHoxsie Robt E	<b>Cass st crosses</b>
ΔKelly Virginia Mrs	1147 Carroll Jane Mrs
Cook Herbert E	Carroll Nora A ©
1008ΔNew System restr	1149ΔCarlson Albert B ©
1009ΔMiracle Bar liquors	1150ΔNarragansett Elec Co
1010ΔJackvony Benj	1157ΔCottage Tap liquors
liquors	1159 Vacant
<b>Thurbers av</b>	1160 Nichols Helen
<b>crosses</b>	ΔFord Chas
51-20	ΔAllen Jos J
1011ΔMilton Drug Co	rear Vacant
1012 Vacant	1162ΔSmith Dorothy
1015ΔMurphy Mary V Mrs	ΔOlson Hattie M Mrs
ΔMurphy Jos J ©	1163ΔMurphy Mary M
ΔHill Wm B	Mrs ©
1017 Lush Veronica	1165ΔPhilbin Jas H
ΔMcGinnis Frank E	<b>Porter st crosses</b>
1025ΔAtlas Mtl Co	1171ΔPotter Geo L ©
1028 Storage	1173ΔGuckian Patk
1029 Legg Hannah E Mrs	ΔGaynor Jas T
1032ΔBucci Angelo	1175 Lewis Helen M Mrs
ΔCaron Napoleon	1177ΔGardner Lewis T ©
1033ΔPercival Stafford H ©	1178ΔCardin Mfg Co sample
<b>Richardson st be-</b>	cases
<b>gins</b>	1179 Vacant
1036 Magnuson Edith I	1181 Pietras Walter C
Mrs ©	1183ΔIdeal Knife Co mfrs
1041ΔMello Geo	<b>Johnson st crosses</b>
ΔGaguon Violet S	1186 Fontaine Hector A
Mrs ©	distr
1042 Cavallaro Carlo ©	rear Storage
1043ΔEvans Edith E Mrs ©	1188ΔBig Chief Serv Sta
1046 Gordon David	1189-91ΔLittle Furn Store
ΔSimmons Geo R	1193ΔTony's Tap liquors
1047 Stanwood Mabel E	1195ΔSmitty's Grille
Mrs	1197ΔMosher Hollis
ΔSimonelli Louis G	Mullen Agnes T Mrs
1048ΔFields Herbert A	Duxbury Doris M Mrs
1049ΔPitocco Albert ©	1199ΔLinton P & A Co Inc
1050ΔMoore Dan E	jewelry mfrs
ΔZimmerly Marion Mrs	ΔBarker & Barker Inc
1054ΔTessitore Alf J	mfg jwlrs
ΔRiley Walter F	1200ΔBig Chief Corp
1055ΔVillella Nicholas ©	ΔAlmac's Inc gro &
ΔHagenberg John A	meats
1057ΔLeeder Urban A	Wilson's Chief Barber
<b>Nebraska st begins</b>	Shop
1060ΔTaylor Sally A	ΔWilson Realty Inc
Zouza Barbara M Mrs	real est
1061 Tessitore Fernando	Wilson's Chief Lunch
1062 Cornell Louis A	Cesino Biagio shoe
Watson Chas	repr
1063ΔPelopida Eliseo ©	Frye's Cigar Co
1064ΔGorman Rubin plmb h	General Markets Co
©	fruits and
Bradford Lawrence	produce and
1065ΔBrown Lloyd	meats
1066ΔTurbutt Richd J	<b>Baker st crosses</b>
1067 Nadrowski Eug	1201ΔDavis E T Studio
1068ΔRicci Agnes J Mrs	photog
1069ΔSharrock Jas P	1203 Dempsey Loretta A
1070ΔFinch Robt W gro	Mrs
1071ΔGilleran John J	VanHooydonk Adrian
1073 Foley Richd F	1209 Vacant store
1074 Lord Geo C ©	ΔFrolander Gustav H ©
1075ΔRichards Walter J ©	<b>Chapman st crosses</b>
1076 Avallone Vincent	1217 Vacant
1078 Vacant	1225ΔPayne Merle E
1079ΔHachadorian Theresa	1227ΔCarlone Peter P
1080 Rapone Marie D	<b>Toronto av ends</b>
nurse	<b>Jillson st begins</b>
ΔBellantone Paul ©	1243ΔBowerman Geo A
1081ΔJackson's Package	1245ΔLavin Wm G
Store	ΔSelby Ora Mrs
1082 Webber Clifton H	1247ΔLevesque Wilfred J T
<b>Pavillon av crosses</b>	1249ΔDeMizio Anthony
1090ΔJohn's Serv Sta	1251ΔTotero Arth P
1091 Russen —	ΔSullivan Edw J
1092 Vacant store	1253ΔLaurendeau Jos R
1093 Bennett Geo A jr	1255ΔHynes Wm T
1095 Ferguson Mary J Mrs	Syverson Geo E
1097ΔKiernan Edw J	1257ΔKean Eliz H Mrs ©
1099ΔLomax John W	<b>Georgia av ends</b>
1100ΔPawtucket Ready	1261ΔDevine Geo A
Mixed Concrete	ΔCooper Mary
Co	1263 Goulet Edw
<b>RR crossing</b>	<b>Broom st begins</b>
1101 Vacant	1268ΔWinsor & Jerauld Mfg
<b>Byfield st begins</b>	Co textile machy
1111 Janicki Edith used	1271ΔDavidson Clarence
cars	M ©



**ERNEST ST 1957**

AVE.	WINKLER OIL BURNERS
74ΔHerman Jane L Mrs 75ΔBilodeau Frank T © Montrose st ends 76ΔPieranunzi Ernest jr 80ΔGrenon Marcus A jr 82 Pelland Eva Mrs 88ΔHealy John R ΔEgan Jas T © 92 Vacant	Porter st begins 150ΔGoudie R A & Sons Inc textile engrs Cass st begins
Fairmount av crosses Yale av crosses 106 Paquin Albert R ΔValois Eliz P Mrs Saute Claire M Mrs 110ΔRoss Albina Mrs © 114ΔRancourt Chas H 116ΔRancourt Chas P © 118ΔLeone Michl © 120ΔLcone Frank	27 ESTEN—From 351 Orms to 370 Smith, wd 12 2 Alexion Chas Messier May H Mrs © 4 Dolan Anna Mrs 4½ Scargill Anna Mrs Bromley Helen M Mrs 7ΔLynch Edw J 8 Loppi Etta Mrs Kinnes Annie Mrs Howe Margt Mrs Canavan Amelia Mrs 9ΔLynch Francis E © 10ΔHolt Merina E Mrs ©
Hendrick st ends 122ΔColavecchio Carmelia Mrs © 124 Vacant 126ΔBertolacini Elmo 128ΔVolonte Chas ©	11ΔSarkisian Sarkis K © 12 Cyronak Danl P © ΔWiley Edw B Polaski Richd W 13 Vaitkunas Bronislovas ΔStAngelo Helen Mrs 14ΔAnderson Harold 1 ΔLeyden Michl J Arthurs Edw M
Pomona av ends 130ΔDiBiasio Albert C © 144ΔMainelli Louis © 146ΔChristiansen Arth O © 148ΔMartin Ella M Mrs 150ΔManocchio Pasquale sr © 157ΔNorcini Orsolina Mrs ©	15 Paskauskos Pirus Lutrario Kosti Mrs Matullo Geneva F Mrs 16ΔCurrier Jos J ΔTully Anna E Mrs 17 Quinn Ellen Mrs 20 Hoxsie Susan ΔFaria Joseph H rearΔSuzedelis Joseph R ©
38 ERICSSON PLACE—From 581 Atwells av to 353 Valley, wd 13	38 ESTHER—From 32 Valley, wd 7
50 ERIE—From 456 Sharon to Rome av, wd 5 19ΔLannie Louis © 20ΔDoughall Dominick P © 21ΔBuonoinano Vito D © 28 Gemma Henry © 40ΔCalise Santa Mrs © 41ΔVanWestendorp Kenneth H © 45ΔIarocci Michl © 49 Grossi V 59ΔMaguess Vernon J © 92ΔAntealli Aqualino C ©	39 ETHAN—From 83 Danel av to Farmington av, wd 7 10ΔStLiberato Club Mercy st crosses 22 DiMauro Frank © ΔDiMauro Michl A 32ΔRusso Pasquale © Simmons st crosses 35 Zompa Francesco ΔPaolino Angelo V 38 DeAngelis Thos variety Sophia st crosses 43ΔZompa Donata Mrs © 45ΔZompa Pasquale © 49ΔColardo Robt N ©
10 ERIN—From 9 Elk to 10 Burke, wd 4	Murray st crosses 67 Dalo Edmund N ΔDalo Natale P 68 Calcione Wm E ΔGiardino Anthony R 71ΔCampopiano Giuseppe A ©
20 ERNEST—From bey Ellis to 1136 Eddy, wds 9, 10 Ellis st begins 2ΔProvidence City of Sewage Disposal Wks ofc ΔGammino M A Constn Co Inc yd 30ΔProvidence City of Municipal Garage 37ΔProvidence City of Sewer Mtce Dept ΔSewage Pumping Sta Allen's av crosses 40ΔProvidence City of Bd of Recreation 54ΔProvidence City of City Architects Ofc 70ΔAnderson Hugold Inc spl machy mfr Rollin st begins Johnson st begins 125ΔHemingway Bros Interstate Truck- ing Co 128ΔTurgeon E Constn Co Inc mtce dept 130ΔFerguson Perforating & Wire Co wire mfrs	72 Medici Anna Mrs © ΔCatalino Dominic © 75ΔPisaturo Romeo & Sons florists ΔPisaturo Carl 80ΔNardolillo Alphonso A gro Moorefield st crosses 83ΔGemma Alex ΔGemma Joseph A 83½ΔGemma Alex liquors 85ΔPitocchi Vincenzo © gro ΔAmerican Painting Co Bordignon Gildo ΔAltieri Dominic Silver Lake av crosses 92ΔRomano Pio A Folcarelli Nicola L Romano Maria Mrs Union av crosses — Piave Hall 105ΔDiBiasio Alf V 106ΔVitullo Arthur M

**TON-BILTMORE**

EDDY ST 1950

Address	Occupant
870	Dantico Angelo P © Moosey John J △Talaacko Anthony M
871	△Daniello Market gro
873	△Rogers Harry C
874	Brosnan Jas J
875	△LePain Lydia Mrs © △Daniello Ralph ©
877	Vacant
880	△Percival Alf H O'Rourke Chas J Percival Eugenia Perry Isabelle F Silvia John F
883	Veterans of Foreign Wars, Cabill Post No 646 Mutual st begins
888	LaValley Frank B △Campbell Bert L
894	Walker Annie E Mrs © △Frank Fredk L
897	△Parkway Laundry
898	△MacBain Homer R machin- ery and supplies
899	Vacant
900	Benevides Jos D Remington Raymond Wagner Robt
901	△Columbia Novelty Co Inc △Conroy Chain Co mfg jwlr
903	Vacant
904	Bethe-Ann Bakery △Jordanos Dinette Oxford st crosses
908	△Little & Co mfg jwlr
909	Christ Episcopal Church
912	Vacant store
913	△Silva's Pharmacy
914	△Clegg Margt V Mrs © Goff Warren E
916	△Nelson's Plastics Seymour st ends
917	Bushnell Irene C Mrs Sprague Ernest jr
919	Keenan Cath Mrs Rose Mary Mrs
921	△Reliable Tailoring Co dry gds—retail
923	Dupuis Jos Fisher Mary Mrs
925	Reliable Tailoring Co
927	△Tantimonic Geo variety Ashmont st begins
928	Lublin Harry used tires
930	△Camera Fred expressing h Ferrara Blanche Mrs
932	△Lubins Used Cars & Parts rear Dupuis Peter
946	Vacant Briggs st crosses
947	△Bucci Ice Co
948	Davis Elmer C △Gardiner Kenneth E M O'Neill Edw H
950	△M & L Cafe liquors
951	△Smith James N
953-955	△Rose Petal Beauty Shoppe Wyatt st begins
957	△Devine Mary E Mrs
960	Devine Harold G McGurn Everett L
961	△White Hugh D
962	Miller Matilda W Mrs Fagan Thos H
965	△Marshall Walter E © Haswell st begins
969	△Breslin Mary E Mrs Autumn st begins
970	LaRiviere Ernest L © Roy Raymond Larson Lennart O
975	Zackarian Peter gro
977	Rapoza Jos △Williams Harold H
980	First National Stores Inc grocers Breslin Geo F △Klingsburg Alf R △Leal Jos B Costello Richd
982	Crane Jos L
984	Larsen Conrad O Reeder st begins
985	Gilmore Milton A Grenier Robt M △Sheridan Steph
986	△Veterans Auto Service
987	△Pilgrim Package Store
989	Hunt Clara E Mrs
991	Kenyon Agnes V Mrs Colvin Jessie E Mrs Reynolds Wm H King Phoebe A Mrs
993	Barberian Kachador S barber
995	Vacant store
996	Lyons Dennis J
997	△Russo Giro V ©
998	△Barclay Danl W Hagobian Malcolm ©
999	△Husband Ricbd J △Fisher Robt
1000	△Mulvey Wm J Mulvey Francis P ©
1001	△Cardinal Fred J △Wilson Ernest
1002	△Lunt Walter I dentist h
1005	Al's Variety △Shaw Margt Mrs
1006	△Connolly John J Rossi John Underwood Fredk W
1008	Washington Diner
1009	△McKiernan Terrance liquors
1010	△Jackvony Benj liquors Thurbers av crosses
1011	△Milton Drug Co
1012	△S R S Tool & Die Corp mfrs
1015	△Murphy Mary V Mrs △Murphy Jos J © Doyle Wm
1017	△Bradtmuller Dora A Mrs △McGinnis Frank E
1025	Revens John C Inc roofing
1028	Storage
1029	Legg Hannah E Mrs
1032	△Duffy Arth J © △Schaefer Willett C
1033	Pothin Mary E Mrs © Richardson st begins
1036	△Rodican Kath F ©
1041	△Gagnon Violet S Mrs © McCoy Ray D
1042	Cavallaro Carlo ©
1043	Evans Albert © Evans Albert P
1046	△McGarty John P △Smith Mary T
1047	Metcalf Frank A Simonelli Lonis
1048	△Lyons Mary Mrs
1049	△Pitocco Albert ©
1050	DeCristofano Jos © △Zimmerly Marion Mrs
1054	△Pezullo Amadeo © Emeno Melbourne M
1055	△McKenna John T △Brosnan Timothy F
1057	△Leeder Urban A Nebraska st begins
1060	△Hollis Howard B © Paquin Eug △Myroft Arth M
1061	△Pelopida Ellseo ©
1062	Powell Leonard G △Watson Wm
1063	Pelopida Louis Silvio Neal
1064	△Royajian Jos E
1065	Forward Paul ©
1066	△Turbitt Richd J
1067	Berard Eva M Mrs
1068	△Rieci Agnes J Mrs
1069	△Burger Clarence L
1070	△Silver Saml gro
1071	Vacant
1073	Sweet Percy A
1074	Lerd Geo
1075	△Richards Walter J ©
1076	Dwyer Jos C Spellman Horace W
1078	Gagnon Anna Mrs ©
1079	△Kachadorian Theresa Mrs Benson Albert L
1080	Bellantone Paul ©
1081	△Simon's Market
1082	Simmons Herbert J jr Pavillon av crosses
1090	△David's Auto Repairing R R crossing
1091	Fleming Harriet Mrs △Fleming Bruce F ©
1092	Vacant store Renshaw Jas
1093	△Asels Robt H
1095	Ferguson Mary J Mrs Fairhanks Wm
1097	Kiernan Edw J

EDDY ST 1950

79 WESTMINSTER	
EDDY ST—Con	1255.
1099ΔLomax John W	1257.
ΔFoutes Mildred	
1100ΔPawtucket Ready Mixed Concrete Co	1261.
1101 Sullivan Rose Mrs	1263
Byfield st begins	
1111 Vacant	
1113ΔJanicki Chester auto repr	1268
ΔSportsman's Tap liquors	
1116ΔTexas Co The petroleum products	1271.
	1277.
1117ΔKlausch Eliz Mrs ©	
1119ΔWilson Marjorie H	1280
Aldrich st begins	
1121ΔBuckley Michl J	1281
ΔBuckley Cath M notary	
ΔShea Mary E Mrs	1283.
1124ΔGardner Chas J	1285
Ernest st ends	1286
1144ΔFederal Products Corp tool mfrs	1287
1145 Vacant	1288
1147 Carroll Jane Mrs	1290
Carroll Nora A ©	1292
Cass st ends	
1149ΔCarlson Albert B ©	1293
1150ΔNarragansett Electric Co	1294
ΔCottage Tap liquors	
1159ΔRobert Glass Works The	1295
1160ΔOlson Hattie M Mrs	1297
rear Peck Clifton E	1299
1162ΔGardner Rosa Mrs	1301
ΔSmith Dorothy	
1163ΔMurphy Mary M Mrs ©	1304
1165ΔPhilbin Jas H	1305
Porter st crosses	1308
1171ΔDauphinee Roy R ©	1309
1173 Westgate Gordon H	1310
ΔGuckian Patk	1311
1175ΔRocks Fred	
1177ΔGardner Lewis T ©	1312
Chace P B Newell	
1178ΔCardin Mfg Co sample cases	1316
1179ΔFalk Ida Mrs ©	1317
1181ΔBush Walter J	1319.
1183ΔIdeal Knife Co mfrs	1323
1188 Deneffo Service Station	1326
1189-1191ΔLittle Furniture Store	1327
1193ΔTony's Tap liquors	
1195 Sharkey's Restaurant	1330
1197 Abbey Wm	1331
Francois Geo K	1334
ΔTrant Chas	
ΔvanWestendorp Kenneth H	1335.
Williams Ruth M	1336
ΔMosher Hollis	
Johnson st crosses	1337
1199ΔLinton P & A Co Inc jewelry mfrs	1338.
ΔBarker & Barker Inc mfg jewelry	1346.
1200ΔWilson Realty Corp real estate	1352.
Wilson's Chief Barber Shop	1358.
Wilson's Chief Drug Dept	1366.
ΔWilson's Chief Market	1370.
Candy Mart Inc	1374.
Cesino Blagio shoe repr	1376.
Jerome Inc meats	
Frye Edw cigars	
Philip Inc fruit and produce	
Wilson's Chief Lunch	ED
ΔBig Chief Corp	Broad
Baker st crosses	2.
1201ΔMosberg S & Son uphols	18.
1203 VanHooydonk Adrian	
Dempsey John A	
1209ΔFrolander Gustav H ©	22.
Junior Aquarium	
Chapman st crosses	26
1217ΔHenry's Laundry Inc	
1218ΔBig Chief Service Sta gas sta	30.
1223 Vacant	
1225ΔPayne Merle E	34.
Cluff Jas L	
1227 Taberman Susanna Mrs ©	36
Toronto av ends	
Jillison st begins	
1243ΔAnderson Fred T plmbr and real estate h ©	44
1245ΔLavin Wm G	
Selby Wm H S	46.
1247ΔDeMizio Anthony	
Levesque Wilfred J T	
1249ΔBazar Rose Mrs	ED
1251ΔTheodore Thos	Fruit
ΔLaurendeau Jos	10.
1253ΔGuglielmino Paul G	

## ERNEST ST 1950

12	ERIN from 9 Elk to 10 Burke
mart,	wd 4
	<hr/>
	20
29	ERNEST from beyond Ellis to
st to	1136 Eddy wd 9, 10
	Ellis st begins
2	△ Providence City of Sewage
	Disposal Wks
0	△ Gammino M A Construc
	tion Co Inc yard
37	△ Providence City of, Sewer
	Maintenance Dept
00	△ Sewage Pumping Station
	Allen's av crosses
	Rollin st begins
	Johnson st begins
	Porter st begins
	Cass st begins
70	△ Anderson Hugold Inc spl
	machy mfr
125	△ Hemingway Bros Interstate
	Trucking Co
128	Turgeon E Construction Co
	Inc mtee dept
130	△ Ferguson Perforating &
	Wire Co wire mfrs
	<hr/>
	27
	ESTEN from 351 Orms to 370
	Smith wd 12

EDDY ST 1944

TELEPHONE GASpee 7051

1013	Volino Antonio barber	1147	Carroll Jane Mrs
1015	MacMullin Donald J		Carroll Nora A ☉
	Anderson Elmer A ☉		<b>Cass st crosses</b>
1017	Burns Thos W ☉	1149	Carlson Albert B ☉
	McGinnis Frank E	1150	Narragansett Electric Co
1025	Vacant	1157	Esther's Lunch
1028	Vacant	1160	Peppin Geo V
gds	1029 Legg Frank J	rear	Higginbotham Fredk
	1032 Duffy Arthur J ☉	1162	Denison Wesley
	1033 Pothin Mary E Mrs ☉		Kreutel Wm E
	<b>Richardson st begins</b>	1163	Murphy Albeus M ☉
	1036 Rodican Kath F	1165	Phibbin Jas H
y	1041 Taylor Saml		<b>Porter st crosses</b>
	Gagnon Arthur ☉	1171	Sutton Bradford J
	1042 Cavallaro Carlo ☉	1173	Westgate Gordon H
	1043 Evans Edith E Mrs ☉		Berry Harold R
	1046 Lyons Dennis A	1175	Vacant
	Orr Mary J Mrs	1177	Gardner Lewis T ☉
Parts	1047 Metcalf Frank A		Renshaw Jas
	Butler Martin J	1178	Cardin Mfg Co sample cases
	Lyons Mary Mrs	1179	Brown Geo R jr
	1049 Turner Harry	1181	Thompson Fred H
	1050 McLellan Jos M	1183	Ideal Knife Co mfrs
	Syverson Geo E	1186	Gigli Domenic auto repr
	1054 Davis Wm C	1188	David's Auto Repairing
roppe	Watson Wm	1189	Milton Furniture Co
	1055 McKenna John T	1193	Bernardo Evaristo liquors
	Brosnan Timothy F	1195	Vacant
	1057-Hand Edw	1197	Adams Pearl
	<b>Nebraska st begins</b>		Anderson Bertha Mrs
	1060 Brosnan Jas T ☉		Carlson Gustaf
	Kean Annie Mrs		Williams Ruth M
	Myroft Arth M		Mosher Hollis
	1061 Matthews Olive L Mrs		Smith Beatrice J
	1062 Cabral Anthony J		<b>Johnson st crosses</b>
	Powell Leonard G	1199	Linton P & A Co Inc jwiry
	1063 Halpin Thos S		mfrs
	Chatel Wm A		Barker & Barker Inc mfg
	1064 Ricci Jas		jwirs
	Boyajian Jos E	1200	Big Chief Corp real est
	1065 Marshall Frank L		Cesino Wm shoe rpr
	1066 Turbitt John J ☉		Kobanski Walter fish
	1067 Berard Hermann J B		Big Chief Barber Shop
	1068 Johnson August B		Big Chief Lunch
Inc	1069 Ashworth Warren		Albert Inc gro & bakery
	1070 Silver Eva gro		Frye Edwd cigars
	1071 Knight Lewis E		Peoples Drug Co
	1073 Sweet Percy A		Philip Inc fruit and
	1074 Lord Geo		produce
rs	1075 Richards Walter J		York State Creameries -Inc
	1076 Dwyer Jos C		dairy products ☉
	Spencer Zillah Mrs		<b>Baker st crosses</b>
	1078 Gagnor Geo ☉	1201	Formal Incz Mrs restr b
	1079 Hachadorian Theresa Mrs	1203	VanHooydonk Adrian
	Benson Albert L	1209	Frolander Herbert G ☉
	1080 Viner Sophie Mrs ☉		<b>Chapman st crosses</b>
	1081 Jamushian Misak gro	1217	Welcome Laundry
	1082 Vacant	1218	Big Chief Service Sta gas
	<b>Pavillon av crosses</b>		sta
	1090 Salisbury's Garage	1223	Evans Albert restr
	R R crossing	1225	Payne Merle E
	1091 Salliby Chas E		Wade Harold W
	1093 Clemens Wm J jr	1227	Taberman Susanna Mrs ☉
	1095 Magnone Jos		<b>Toronto av ends</b>
	Hebert Normand C		<b>Jillson st begins</b>
	1097 Vacant	1243	Anderson Fred T plmhr and
	1099 Lomax John W		real est h
	Gross May L Mrs	1244	Vacant
	1101 Sullivan Margt Mrs	1245	Lavin Wm G
	<b>Byfield st begins</b>		Selby Wm H
	1111 Janicki Chester gas sta	1247	Garrett John F
	1113 Janicki Chester auto rpr		Gormley Vincent
	Farrell John L liquors	1249	Bowerman Lena Mrs
	<b>The Railroad crosses</b>	1251	Brown Francis F
	Texas Co The petroleum	1253	Story Sarah E Mrs ☉
☉	products	1255	Hynes Wm T
	1117 Klausch Eliz Mrs ☉		Kean Jas
riety	1119 Wilson Chas R	1257	Kallstrom Gunnar A
	<b>Aldrich st begins</b>		<b>Georgia av ends</b>
	1121 Buckley Michl J	1261	Devine Geo A
	Shea Mary E Mrs		Sciola Anthony
	1124 Clough Richd F	1263	Goulet Edwd
	<b>Ernest st ends</b>		<b>Broom st begins</b>
rs	1125 Vacant	1268	Winsor & Jerauld Mfg Co
st	1143 O'Rourke Patk J ☉		textile machinery
ts	1144 Federal Products Corp tool	1271	McGuire Albert J ☉
	mfrs	1277	Tucci Antonlo
	1145 Mallon Annie ☉		<b>Carolina av ends</b>

ERNEST ST 1944

# ORGANIZED 1851

## D BUILDING - - -

<b>ERNEST</b> from beyond <b>Ellis</b> to		83½	Gen
1136	Eddy wd 9, 10	85	P
	<b>Ellis st begins</b>		A
2	Providence City of Sewage Disposal Wks	92	D
37	Providence City of, Sewer Maintenance Dept		R
00	Sewage Pumping Station		F
	<b>Allen's av crosses</b>		I
	<b>Rollin st begins</b>	00	P
	<b>Johnson st begins</b>	105	P
	<b>Porter st begins</b>		G
	<b>Cass st begins</b>	106	V
50	Gammino M A Construction Co Inc yard		V
123	Hemingway Bros Interstate Trucking Co	108	P
130	Ferguson Perforating & Wire Co wire mfrs		L
200	Vacant		C
		109	D
			G
			P
		115	R
			C
<b>ESLAF</b> from 13 Linwood av to 301 Waldo, wd 8			
		137	D
			C
<b>ESTEN</b> from 351 Orms to 370 Smith wd 12			
	2 Alexion Chas		
	Messier Emile A		

Mrs

**EDDY ST 1938**

	NO.	NAME	PROF.
rs,	11011	Sutherland John D	druggist
	11012	Screw Machine Products Corp	
	11013	Vollino Antonio	barber
	1015	McCarthy Mlehl J	⊙
		Ferreira Geo C	
	1017	Burns Mary A Mrs	⊙
		McGinnis Frank E	
	1025	Farrell Michl	ice dlr
	1028	Vacant	
	1029	Vacant	
	1032	Duffy Arthur J	⊙
		King Bernard	
	1033	Pothin Mary E Mrs	⊙
		<b>Richardson st begins</b>	
	1036	Rodican Jos P	⊙
	1041	Taylor Saml	
		Gagnon Arthur	⊙
	1042	Moon Herbert A	
	1043	Evans Edith E Mrs	⊙
rpt	1046	Lyons Dennis A	
		Orr Mary J Mrs	
	1048	Lyons Jos F	
	1047	Metcalf Frank A	
		Streeter Wm L	⊙
	1049	Lewis Ddwid F	
	1050	McLellan Jos	
		Syverson Geo E	
	1054	Cioffi Amelio	
		Cavallaro Carlo	
	1055	Sutherland Vernon F	
		McKenna John T	
	1057	Carton Marjorie L Mrs	
		Morris Jos L	
		<b>Nebraska st begins</b>	
	1060	Brosnan Jas T	⊙
		Cook Herbert E	
		Martineau Edmund L	
	1061	Baumister Gordon	
	1062	Cabrol Anthony J	
		Powell Leonard G	
	1063	Trundy Harry E	
parts		Chatel Wm A	
	1064	Ricci Jas	
	1065	Marshall Frank L	
	1066	Turbitt John J	⊙
	1067	Underwood Annie L	
	1068	Johnson August B	
oppe	1069	DeCoursey John E	
	1070	Lindstrom Oscar E	variety
	1071	Knight Lewis E	
	1072	Vacant	
	1073	Charlonne Oliver	
	1074	Maytun Eilleen	
		Smith Elmo	
rs	1075	Richards Walter J	
	1076	Fogell Chas	
	1078	Donnelly Frank J	
	1079	Hachadorian Theresa	Mrs
		Farrell Fredk H	
	1080	Viner Sophie Mrs	⊙
	1081	Jamushian Misak	gro
		rear Jamushian Misak	
	1082	Vacant	
		<b>Pavilion av crosses</b>	
	1090	Aero Garage auto rprs	
		<b>R R crossing</b>	
Inc	1091	Lamont Isabelle Mrs	⊙
		Wells Grace A	
	1093	Vacant	
	1095	Lea Robt A	
		Salisbury Harold C	
	1097	Taylor Dorr E	
	1099	Mulvey Margt F	
		Jerue Jas E	
		Quinn Martin J	
	1101	Corbett Marion	
		<b>Byfield st begins</b>	
	1111	Janickl Chester	gas sta
	1113	Janickl Chester	auto rpr
		McKenna John C	liquors
		<b>The Railroad crosses</b>	
	1116	Texas Co	The petroleum products
	1117	Klausch Eliz Mrs	⊙
	1119	Wilson Chas R	
		<b>Aldrich st begins</b>	
	1121	Buckley Michl J	
		Shea Mary E Mrs	
	1124	Conner Harry J	
		<b>Ernest st ends</b>	
	1125	Madden Martln	used cars & auto parts
	1143	O'Rourke Patk J	⊙
ariety	1144	Jewelers' Supply Co	Inc
		Federal Products Corp	tools
	1145	Mallon Annie	⊙
	1147	Carroll Jane Mrs	
		Carroll Nora A	⊙
		<b>Cass st crosses</b>	
clfic	1149	Carlson Albert B	⊙
uors	1150	Narragausett Electric Co	
	1157	Elsa's Restaurant	
	1160	Tumler Kunigunda Mrs	⊙

**EDDY ST 1938**

1160 Eddy St—Con	1295 Co
rear Higginbotham Fredk	N
1162 Easton Stanley A	1297 Va
1163 Murphy Albeus M ©	1299 Ru
1165 Philbin Jas H	1301 Va
Porter st crosses	1304 W
1171 Vacant	
1173 Sellins Geo	1305 Mo
Westgate Gordon H	1308 Ru
1175 Collins Winifred A Mrs	1309 Ol
1177 Gardner Lewis T ©	1310 Ho
Murphy Francis	1311 Al
1178 Cardin Mfg Co sample cases	
1179 Farrell Jas H	1312 Bu
1181 Cook Frank M	
1183 Carlson Andrew G ©	1316 Cl
1188 Carlson Andrew G auto	1317 K
supplies	1319 H
1189 Churnick Carl furriers	1323 Ar
1193 Vacant	1326 H
1195 Vacant	H
1197 Baker Geo L	1327 H
Anderson Eric D	1330 Ca
Massey Wm E	1331 M
Mixon Florence K	1335 F
Williams Ruth M	1336 D
Mosher Hollis	
Johnson st crosses	1337 M
1199 Linton P & A Co Inc jwlr	1338 M
mfrs	
Barker & Barker Inc mfg	1346 H
jwlr	1352 Tu
Paragon Jewelry Co Inc The	1358 M
1200 Big Chief Corp real est	
Big Chief Barber Shop	1366 Je
Albert Inc gro	1370 H
Eraus W Kendrick novelties	1374 W
Millard Corp ice cream	1378 E
Frye Edwd cigars	
Peoples Drug Co	
Penn Cleansers Inc cleaning	
and pressing	
Peterson Carl J dry gds	
Philip Inc fruit and	
produce	
Silverman Milton J fish	
York State Creameries Inc	
dairy products ©	
Baker st crosses	
1201 Formal lnez Mrs restr h	18 K
1203 Fournier Alf H	22 Ls
Seligman Bertha G Mrs	K
1209 Frolander Herbert G ©	26 D
Chapman st crosses	M
1217 Salisbury E M Co salad	30 B
dressing	M
1218 Big Chief Service Sta gas	34 Sy
sta	36 Ja
1223 Evans Albert restr	Iz
1225 Payne Merle E	44 D
Wade Harold W	R
1227 Taberman Carl A ©	46 D
Toronto av ends	
Jillson st begins	
1243 Russell Thos H ©	10 C
Anderson Fredk T plmbr h	C
1244 Eastern Auto Co used auto	
dlrs	40 B
1245 McCarthy Patk J	45 V
Selby Wm H	107 R
1247 Garrett John F	
Kenosian Assadoor	
1249 Bowerman Lena Mrs	
1251 Brown Francis F	
1253 Story Sarah E Mrs ©	
1255 Hamilton Edwin R	
Kean Jas ©	
1257 Frank Chas A	
Georgia av ends	
1261 Downey Edwd J ©	
1263 Goulet Edwd	
Kellogg Barstow G	
Broom st begins	
1268 Winsor & Jerauld Mfg Co	
textile machinery	
1271 McGuire Albert J ©	
1277 McKenzie Alexander	
Carolina av ends	
1280 Washington Park Service	
Station auto rprs	
1281 Richford Bernard	
1283 Vacant	
1285 Fell Jas	
1286 New Liberty Barber Shop	
1287 Baker Carl T	
Calla st begins	
1288 Atkinson John variety	
1290 Posner's Shoe Repairing	
Shop	
1292 Vacant	
1293 Sutcliff Wm fish and chips	
1294 Progressive Beauty Parlor	



ERNEST ST 1938

40 Cause JOS ©

59 Buomomano Vito ©

**ERIN** from 9 Elk to 10 Burke  
wd 4

**ERNEST** from beyond Ellis to  
1136 Eddy wd 10

**Ellis st begins**

00 Allen's av, Providence City  
of, Sewage Pumping Sta-  
tion

37 Providence City of, Sewer  
Maintenance Dept

00 Richfield Oil Corp of Mass,  
Prov terminal

**Allen's av crosses**

**Rollin st begins**

**Johnson st begins**

**Porter st begins**

**Cass st begins**

50 Gammino M A Construction  
Co Inc yard

130 Ferguson Perforating &  
Wire Co wire mfrs  
Ferguson J C Mfg Works  
Inc sugar machinery

**ESTEN** from 351 Orms to 370  
Smith wd 12

2 Alexion Chas  
Messier Emil A

4 Kenefick Mary E

100 Val

108 Carr

Cicc

Ron

109 Greo

115 Ricc

Iade

137 DiF

Can

**ETHEL**

opp 22 A

15 O'B

Bish

Miz

00 Rho

**ETNA**

land wd

**EUCLI**

Thayer to

5 Stil

10 Via

11 Ant

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## **APPENDIX E**



# SOIL BORING/MONITORING WELL LOG: SE-101(MW)

PROJECT NUMBER: S3977  
 DRILLING DATE: 11/19/2021  
 LOGGED BY: DB  
 DRILLED BY: TP/TA  
 SCREENING EQUIPMENT: PID

DRILL METHOD: 7822 DT  
 SAMPLE METHOD: 5' Macrocore  
 BORING TOTAL DEPTH: 40'  
 BORING/MW DIAMETER: 1"  
 LENGTH OF RISER: 25'  
 LENGTH OF SCREEN: 15'

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BSG)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))			
0	0-2	100	ND	Light brown, dry, fine to course sand, little silt, trace gravel.							
2	2-5	80	ND	Brown, moist, fine sand and silt.							
4	5-10	75	ND	Dry, fine to medium sands, little silt, trace gravel and fractured rock.							
6	10-15	75	ND	Light brown, dry, fine to course sand, fining towards bottom of sleeve to moist fine sand.					Filter Pack		
8	15-20	80	ND	Dry, fine to course sand, little gravel and trace silt.							
10	20-25	80	NA	Moist, fine to course sand, little gravel and trace silt.					Bentonite		
12	25-30	60	NA	Moist, fine to course sand, little gravel and trace silt.							
14	30-35	60	NA	Moist, fine to course sand, some gravel towards bottom of the sleeve. Wet at end.							Filter Pack
16	35-40	75	NA	Wet, fine to course sand, some gravel, trace silt.							
18											
20						30					

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV



# SOIL BORING/MONITORING WELL LOG: SE-102(MW)

PROJECT NUMBER: S3977  
 DRILLING DATE: 11/19/2021  
 LOGGED BY: DB  
 DRILLED BY: TP/TA  
 SCREENING EQUIPMENT: PID

DRILL METHOD: 7822 DT  
 SAMPLE METHOD: 5' Macrocore  
 BORING TOTAL DEPTH: 40'  
 BORING/MW DIAMETER: 1"  
 LENGTH OF RISER: 25'  
 LENGTH OF SCREEN: 15'

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BSG)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0	0-2	100	ND	Dark brown, fine sand, silt, roots, topsoil.				
2	2-5	80	ND	Light brown, moist, fine to medium sand, little gravel, trace silt.				
4	5-10	80	ND	Light brown, dry, brown fine to medium sand, little gravel, trace silt.				
6	10-15	75	ND	Light brown, dry, fine to medium sand, little gravel, trace silt.				Filter Pack
8								
10								
12								
14								
16								
18								
20								
22								
24								Bentonite
26								
28								
30								
32								Filter Pack
34								
36								
38								
40								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV



# SOIL BORING/MONITORING WELL LOG: SE-103

PROJECT NUMBER: S3977  
 DRILLING DATE: 11/19/2021  
 LOGGED BY: DB  
 DRILLED BY: TP/TA  
 SCREENING EQUIPMENT: PID

DRILL METHOD: 7822 DT  
 SAMPLE METHOD: 5' Macrocore  
 BORING TOTAL DEPTH: 2'  
 BORING/MW DIAMETER: NA  
 LENGTH OF RISER: NA  
 LENGTH OF SCREEN: NA

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BSG)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0							<b>No Well Installed</b>	
0.1								
0.2								
0.3								
0.4								
0.5								
0.6								
0.7								
0.8								
0.9								
1	0-2	100	ND	Dark brown, moist, silt and fine to medium sand, trace gravel, and roots.				
1.1								
1.2								
1.3								
1.4								
1.5								
1.6								
1.7								
1.8								
1.9								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV



# SOIL BORING/MONITORING WELL LOG: SE-104

PROJECT NUMBER: S3977  
 DRILLING DATE: 11/19/2021  
 LOGGED BY: DB  
 DRILLED BY: TP/TA  
 SCREENING EQUIPMENT: PID

DRILL METHOD: 7822 DT  
 SAMPLE METHOD: 5' Macrocore  
 BORING TOTAL DEPTH: 2'  
 BORING/MW DIAMETER: NA  
 LENGTH OF RISER: NA  
 LENGTH OF SCREEN: NA

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BSG)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0							<b>No Well Installed</b>	
0.1								
0.2								
0.3								
0.4								
0.5								
0.6								
0.7								
0.8								
0.9								
1	0-2	100	ND	Dark brown, moist, silt and fine to medium sand, trace gravel, and roots.				
1.1								
1.2								
1.3								
1.4								
1.5								
1.6								
1.7								
1.8								
1.9								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV



# SOIL BORING/MONITORING WELL LOG: SE-105(MW)

PROJECT NUMBER: S3977  
 DRILLING DATE: 11/19/2021  
 LOGGED BY: DB  
 DRILLED BY: TP/TA  
 SCREENING EQUIPMENT: PID

DRILL METHOD: 7822 DT  
 SAMPLE METHOD: 5' Macrocore  
 BORING TOTAL DEPTH: 40'  
 BORING/MW DIAMETER: 1"  
 LENGTH OF RISER: 25'  
 LENGTH OF SCREEN: 15'

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BSG)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0	0-2	100	ND	Dark brown, moist, silt and fine to medium sand, trace gravel.		13 ▼		Filter Pack
2	2-5	80	ND	Light brown, moist, silt and fine to medium sand, trace gravel.				
4	5-10	75	ND	Light brown, dry, fine to coarse sand, fractured rock, little gravel, trace silt.				
6	10-15	80	ND	Light brown, moist, fine to medium sand, little silt, trace gravel.				
8								
10								
12								
14								
16								
18								
20								
22								
24								Bentonite
26								
28								
30								
32								Filter Pack
34								
36								
38								
40								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV



# SOIL BORING LOG: SE-201

PROJECT NUMBER: S3977

DRILL METHOD: Hand Tools

DRILLING DATE: 12/21/2021

SAMPLE METHOD: 2' Macrocore

LOGGED BY: Daniel Boynes

BORING TOTAL DEPTH: 6'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

SCREENING EQUIPMENT: PID

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)
0						
0.4						
0.8	0-2	80	1.5	(0'-2') Sandy fill, gravel, rock fragments, and silt.		
1.2						
1.6						
2						
2.4	2-4	100	1	(2'-4') Sandy fill, gravel, rock fragments, and silt.		
2.8						
3.2						
3.6						
4						
4.4	4-6	75	ND	(4'-6') Sandy fill, gravel, rock fragments, and silt.		
4.8						
5.2						
5.6						

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; BGS = Below Ground Surface





# SOIL BORING LOG: SE-202

PROJECT NUMBER: S3977

DRILL METHOD: Hand Tools

DRILLING DATE: 12/21/2021

SAMPLE METHOD: 2' Macrocore

LOGGED BY: Daniel Boynes

BORING TOTAL DEPTH: 6'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

SCREENING EQUIPMENT: PID

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)
0						
0.4						
0.8	0-2	75	1.2	(0'-2') Brown, sandy fill, gravel, and silt.		
1.2						
1.6						
2						
2.4	2-4	50	ND	(2'-4') Brown, sandy fill, gravel, and silt.		
2.8						
3.2						
3.6						
4						
4.4	4-6	100	ND	(4'-6') Brown, sandy fill, gravel, and silt.		
4.8						
5.2						
5.6						

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; BGS = Below Ground Surface



# SOIL BORING LOG: SE-203

PROJECT NUMBER: S3977

DRILL METHOD: Hand Tools

DRILLING DATE: 12/21/2021

SAMPLE METHOD: 2' Macrocore

LOGGED BY: Daniel Boynes

BORING TOTAL DEPTH: 6'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

SCREENING EQUIPMENT: PID

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)
0						
0.4						
0.8	0-2	50	7.5	(0-2') Brown, moist, sandy fill, rock fragments, and silt.		
1.2						
1.6						
2						
2.4	2-4	100	ND	(2'-4') Brown, moist, sandy fill, rock fragments, and silt.		
2.8						
3.2						
3.6						
4						
4.4	4-6	80	ND	(4'-6') Brown, moist, sandy fill, rock fragments, and silt.		
4.8						
5.2						
5.6						

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; BGS = Below Ground Surface



# SOIL BORING LOG: SE-204

PROJECT NUMBER: S3977

DRILL METHOD: Hand Tools

DRILLING DATE: 12/21/2021

SAMPLE METHOD: 2' Macrocore

LOGGED BY: Daniel Boynes

BORING TOTAL DEPTH: 6'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

SCREENING EQUIPMENT: PID

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)
0						
0.4						
0.8	0-2	75	ND	(0'-2') Brown, sandy fill, gravel, and silt.	Lithology Graphic Log	
1.2						
1.6						
2						
2.4	2-4	75	1	(2'-4') Brown, sandy fill, gravel, and silt.		
2.8						
3.2						
3.6						
4						
4.4	4-6	75	ND	(4'-6') Brown, sandy fill, gravel, and silt.		
4.8						
5.2						
5.6						

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; BGS = Below Ground Surface



# SOIL BORING LOG: SE-205

PROJECT NUMBER: S3977

DRILL METHOD: Hand Tools

DRILLING DATE: 12/21/2021

SAMPLE METHOD: 2' Macrocore

LOGGED BY: Daniel Boynes

BORING TOTAL DEPTH: 6'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

SCREENING EQUIPMENT: PID

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)
0						
0.4						
0.8	0-2	75	ND	(0'-2') Brown, moist, sandy fill, gravel, and silt.	LITHOLOGY GRAPHIC LOG	
1.2						
1.6						
2						
2.4	2-4	75	ND	(2'-4') Brown, moist, sandy fill, gravel, and silt.		
2.8						
3.2						
3.6						
4						
4.4	4-6	75	ND	(4'-6') Brown, moist, sandy fill, gravel, and silt.		
4.8						
5.2						
5.6						

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; BGS = Below Ground Surface



# SOIL BORING/MONITORING WELL LOG: SE-301(MW)

PROJECT NUMBER: S3977

DRILL METHOD: Geoprobe

DRILLING DATE: 01/04/2022

SAMPLE METHOD: 5' Macrocore

LOGGED BY: Jack Duross

BORING TOTAL DEPTH: 39'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

BORING/MW DIAMETER: 1"

SCREENING EQUIPMENT: PID

LENGTH OF RISER: 19'

LENGTH OF SCREEN: 20'

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0				(0-10") Yellowish orange, rocky, poorly graded, gravelly sands, little or no fines. (10"-15") Greenish grey with light brown, poorly graded, gravelly sands, little or no fines.				
2	0-5	25	ND	(1.25'-5') Dark olive grey, rocky, sand-silt mixtures.				
4								
6								Filter Pack
8	5-10	50	ND	(0-5') Dark olive grey, rocky, sand-silt mixtures.				
10								
12	10-15	50	ND	(0-3.5') Light brown, moist, very fine, sand-silt mixtures. Approximately 6" of saturated soil at bottom.				
14				(3.5'-5') Greenish grey, poorly graded, gravel-sand mixtures, little or no fines.				Bentonite
16								
18	15-20	40	ND	(0-3.5') Greenish grey, well graded, gravel-sand mixtures, little or no fines with cobbles.				
20				(3.5'-5') Light grey, poorly graded, gravelly sands, little or no fines with cobbles.				
22	20-25	50	ND	(0-3') Olive and light grey, wet, gravel-sand-silt mixtures with pebbles throughout. Leached iron at top and bottom of sample.				
24				(3'-5') Olive grey, sand-silt mixtures with pebbles.				
26	25-28	100	ND	(0-1') Olive grey to brown, moist, sand-silt mixtures with pebbles.		26.5		Filter Pack
28				(1'-3') Dark grey, saturated, well graded, gravelly sands, little or no fines.				
30								
32								
34	28-39	NS	NS	Not sampled. Well installed to 39' bgs.				
36								
38								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; NS = Not Sampled; BGS = Below Ground Surface



# SOIL BORING/MONITORING WELL LOG: SE-302(MW)

PROJECT NUMBER: S3977

DRILL METHOD: Geoprobe

DRILLING DATE: 01/04/2022

SAMPLE METHOD: 5' Macrocore

LOGGED BY: Jack Duross

BORING TOTAL DEPTH: 40'

DRILLED BY: SAGE EnviroTech Drilling Services, Inc.

BORING/MW DIAMETER: 1"

SCREENING EQUIPMENT: PID

LENGTH OF RISER: 20'

LENGTH OF SCREEN: 20'

DEPTH (FEET BGS)	SAMPLE INTERVAL	% RECOVERY	PID (PPMV)	MATERIAL DESCRIPTION <small>(COLOR, DENSITY, CLASSIFICATION, MOISTURE CONTENT, NOTES)</small>	LITHOLOGY GRAPHIC LOG	DTW (FEET BGS)	WELL CONSTRUCTION (VISUAL)	WELL CONSTRUCTION (DEPTH INTERVALS (FEET BGS))
0				(0-1.5') Yellowish orange to grey, poorly graded, gravelly sands, little or no fines with pebbles.				
2	0-5	75	ND	(1.5'-5') Greyish brown, sand-silt mixtures.				
4								
6	5-10	40	ND	(0-5') Yellowish orange, sand-silt mixtures with dark grey splotches.				Filter Pack
8								
10	10-15	40	ND	(0-1') Yellowish orange, sand-silt mixtures with dark grey splotches. (1'-4') Orange to dark brown, sand-silt mixtures with some quartz.				
12								
14				(4'-5') Light grey, poorly graded, gravelly sands, little or no fines, very rocky.				
16								Bentonite
18								
20								
22								
24								
26								
28	15-40	NS	NS	Not sampled. Well installed to 40' bgs.				Filter Pack
30								
32								
34								
36								
38								
40								

COMMENTS:  
 THIS BORE LOG IS INTENDED FOR ENVIRONMENTAL NOT GEOTECHNICAL PURPOSES.  
 ND (Non-Detect) = <1 ppmV; NS = Not Sampled; BGS = Below Ground Surface

## **APPENDIX F**



Thursday, December 02, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: 53977  
SDG ID: GCJ83473  
Sample ID#s: CJ83473 - CJ83479

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 02, 2021

SDG I.D.: GCJ83473

Project ID: 53977

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Client Id	Lab Id	Matrix
SE-101 (0-2')	CJ83473	SOIL
SE-101 (10-15')	CJ83474	SOIL
SE-102 (10-15')	CJ83475	SOIL
SE-103 (0-2')	CJ83476	SOIL
SE-104 (0-2')	CJ83477	SOIL
SE-105 (0-2')	CJ83478	SOIL
SE-105 (10-15')	CJ83479	SOIL



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

11/19/21  
 11/22/21

Time

9:00  
 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83473

Project ID: 53977  
 Client ID: SE-101 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	3.54	0.73	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.37	0.29	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	0.87	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	8.09	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Copper	14.8	0.7	mg/kg	1	11/24/21	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	9.41	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Lead	13.9	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	38.5	0.7	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	90		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.37	mg/Kg	10	11/23/21	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	72		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	70		%	10	11/23/21	SC	30 - 150 %
% TCMX	66		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	11/23/21	SC	30 - 150 %
<b><u>TPH by GC (Extractable (C9-C36))</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	54	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	83		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.03	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.03	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.3	mg/Kg	1	11/29/21	JLI	SW8260C

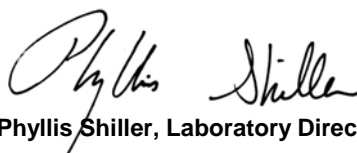
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0036	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.006	mg/Kg	1	11/29/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	99		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	103		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	77		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	78		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	71		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn: Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 11/19/21                      9:30  
 11/22/21                      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83474

Project ID: 53977  
 Client ID: SE-101 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1254	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.35	mg/Kg	10	11/23/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	76		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	11/23/21	SC	30 - 150 %
% TCMX	70		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	11/23/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	52	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	95		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.029	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.029	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.29	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0035	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.035	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0059	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	96		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

  
**Phyllis Shiller, Laboratory Director**  
**December 02, 2021**  
**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 11/19/21 10:30  
 11/22/21 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83475

Project ID: 53977  
 Client ID: SE-102 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1221	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1232	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1242	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1248	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1254	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1260	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1262	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A
PCB-1268	ND	0.36	mg/Kg	10	11/23/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	75		%	10	11/23/21	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	11/23/21	SC	30 - 150 %
% TCMX	64		%	10	11/23/21	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	11/23/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO

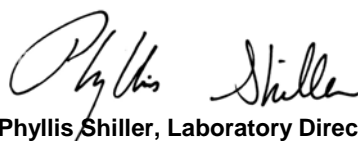
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	53	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	90		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0028	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0028	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0095	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0047	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	95		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

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 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time

11/19/21 11:30  
 11/22/21 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83476

Project ID: 53977  
 Client ID: SE-103 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.47	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	29.3	0.84	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.84	0.33	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.70	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	17.2	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Copper	47.2	0.8	mg/kg	1	11/24/21	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	8.88	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Lead	107	0.42	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	64.3	0.8	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	82		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/22/21	O/E	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.4	mg/Kg	10	11/24/21	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	78		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	11/24/21	SC	30 - 150 %
% TCMX	71		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	11/24/21	SC	30 - 150 %
<b><u>TPH by GC (Extractable (C9-C36))</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	61	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	80		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.035	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.035	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.35	mg/Kg	1	11/29/21	JLI	SW8260C

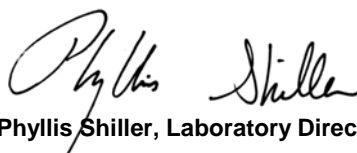
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0042	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.042	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.014	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.007	mg/Kg	1	11/29/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	97		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	102		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	0.74	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	1.2	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	1.6	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.82	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	1.1	0.28	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	1.4	0.28	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	79		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	59		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date

11/19/21  
 11/22/21

Time

12:30  
 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83477

Project ID: 53977  
 Client ID: SE-104 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.50	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	8.01	0.79	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.71	0.32	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.72	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	21.8	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Copper	153	0.8	mg/kg	1	11/24/21	TH	SW6010D
Mercury	0.13	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	10.5	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Lead	125	0.40	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	161	0.8	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	85		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	92		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	11/24/21	SC	30 - 150 %
% TCMX	76		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	11/24/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Fuel Oil #4	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Fuel Oil #6	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Kerosene	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Motor Oil	ND	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Total TPH	250	59	mg/kg	1	11/23/21	JRB	SW8015D DRO
Unidentified	**	59	mg/kg	1	11/23/21	JRB	SW8015D DRO

**QA/QC Surrogates**

% COD (surr)	69		%	1	11/23/21	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	11/23/21	JRB	50 - 150 %

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	11/29/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
2-Hexanone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.036	mg/Kg	1	11/29/21	JLI	SW8260C
Acetone	ND	0.36	mg/Kg	1	11/29/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Benzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromochloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromodichloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromoform	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Bromomethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon Disulfide	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chlorobenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloroform	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Chloromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromochloromethane	ND	0.0044	mg/Kg	1	11/29/21	JLI	SW8260C
Dibromomethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Ethylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Isopropylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
m&p-Xylene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.044	mg/Kg	1	11/29/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Methylene chloride	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Naphthalene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
n-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
n-Propylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
o-Xylene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Styrene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrachloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Toluene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Total Xylenes	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Trichloroethene	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.015	mg/Kg	1	11/29/21	JLI	SW8260C
Vinyl chloride	ND	0.0073	mg/Kg	1	11/29/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	98		%	1	11/29/21	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	11/29/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	11/29/21	JLI	70 - 130 %
% Toluene-d8	102		%	1	11/29/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	0.52	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	2.4	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	2.2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	2.5	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	1.2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	2	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	2.6	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	0.36	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	3.6	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1.5	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	2.4	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	2.9	0.27	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	76		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	59		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

TPH Comment:

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date Time  
 11/19/21 13:30  
 11/22/21 15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83478

Project ID: 53977  
 Client ID: SE-105 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Arsenic	3.18	0.74	mg/Kg	1	11/24/21	TH	SW6010D
Beryllium	0.51	0.29	mg/Kg	1	11/24/21	TH	SW6010D
Cadmium	1.26	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Chromium	16.3	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Copper	13.6	0.7	mg/kg	1	11/24/21	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	11/23/21	AP	SW7471B
Nickel	14.8	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Lead	25.2	0.37	mg/Kg	1	11/24/21	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	11/24/21	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	11/24/21	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	11/24/21	TH	SW6010D
Zinc	118	0.7	mg/Kg	1	11/24/21	TH	SW6010D
Percent Solid	85		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Mercury Digestion	Completed				11/23/21	AB/AB	SW7471B
Extraction of ETPH	Completed				11/22/21	R/E	SW3546
Soil Extraction for SVOA PAH	Completed				11/22/21	I/Y	SW3546
Total Metals Digest	Completed				11/23/21	M/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.38	mg/Kg	10	11/24/21	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	87		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	114		%	10	11/24/21	SC	30 - 150 %
% TCMX	77		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	11/24/21	SC	30 - 150 %
<b><u>TPH by GC (Extractable (C9-C36))</u></b>							
Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Total TPH	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	84		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.0005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.25	mg/Kg	1	11/30/21	JLI	SW8260C

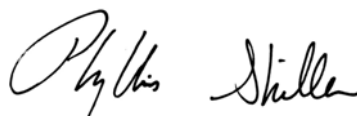
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acrylonitrile	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	11/30/21	JLI	SW8260C
<b><u>QA/QC Surrogates</u></b>							
% 1,2-dichlorobenzene-d4	95		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	96		%	1	11/30/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
Pyrene	ND	0.27	mg/Kg	1	11/23/21	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	79		%	1	11/23/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	11/23/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	11/23/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 02, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 02, 2021

FOR: Attn: Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 11/19/21                      14:00  
 11/22/21                      15:26

Laboratory Data

SDG ID: GCJ83473  
 Phoenix ID: CJ83479

Project ID: 53977  
 Client ID: SE-105 (10-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		11/22/21	C	SW846-%Solid
Soil Extraction for PCB	Completed				11/23/21	O/L	SW3545A
Field Extraction	Completed				11/19/21		SW5035A
Extraction of ETPH	Completed				11/22/21	R/E	SW3546

**Polychlorinated Biphenyls**

PCB-1016	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1221	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1232	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1242	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1248	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1254	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1260	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1262	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A
PCB-1268	ND	0.39	mg/Kg	10	11/24/21	SC	SW8082A

**QA/QC Surrogates**

% DCBP	84		%	10	11/24/21	SC	30 - 150 %
% DCBP (Confirmation)	87		%	10	11/24/21	SC	30 - 150 %
% TCMX	79		%	10	11/24/21	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	11/24/21	SC	30 - 150 %

**TPH by GC (Extractable (C9-C36))**

Fuel Oil #2 / Diesel Fuel	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #4	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Fuel Oil #6	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Kerosene	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Motor Oil	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO



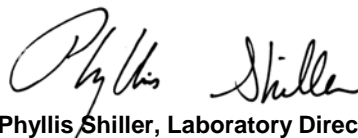
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total TPH	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
Unidentified	ND	58	mg/kg	1	11/24/21	JRB	SW8015D DRO
<b><u>QA/QC Surrogates</u></b>							
% COD (surr)	90		%	1	11/24/21	JRB	50 - 150 %
% Terphenyl (surr)	93		%	1	11/24/21	JRB	50 - 150 %
<b><u>Volatiles</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	11/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
2-Isopropyltoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	11/30/21	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	11/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Benzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromoform	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Bromomethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloroform	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Chloromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	11/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	11/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Naphthalene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
o-Xylene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Styrene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrachloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Toluene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Total Xylenes	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Trichloroethene	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	11/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0057	mg/Kg	1	11/30/21	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	97		%	1	11/30/21	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	11/30/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/30/21	JLI	70 - 130 %
% Toluene-d8	95		%	1	11/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

  
 Phyllis Shiller, Laboratory Director

December 02, 2021

Reviewed and Released by: Rashmi Makol, Project Manager



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# QA/QC Report

December 02, 2021

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 601873 (mg/kg), QC Sample No: CJ83473 2X (CJ83473, CJ83476, CJ83477, CJ83478)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	106	108	1.9	85.5	85.4	0.1	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 601945 (mg/kg), QC Sample No: CJ83909 (CJ83473, CJ83476, CJ83477, CJ83478)

### ICP Metals - Soil

Antimony	BRL	3.3	<3.7	<3.5	NC	97.6	97.3	0.3	88.6			75 - 125	35
Arsenic	BRL	0.67	2.00	2.04	NC	95.9	101	5.2	93.1			75 - 125	35
Beryllium	BRL	0.27	0.40	0.50	NC	104	103	1.0	93.6			75 - 125	35
Cadmium	BRL	0.33	1.21	1.28	NC	106	106	0.0	97.5			75 - 125	35
Chromium	BRL	0.33	14.6	15.6	6.60	101	103	2.0	95.7			75 - 125	35
Copper	BRL	0.67	21.8	23.9	9.20	94.5	94.1	0.4	94.0			75 - 125	35
Lead	BRL	0.33	15.1	11.9	23.7	98.7	95.4	3.4	97.0			75 - 125	35
Nickel	BRL	0.33	14.2	13.4	5.80	110	110	0.0	90.9			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.4	NC	97.8	100	2.2	92.5			75 - 125	35
Silver	BRL	0.33	<0.37	<0.35	NC	81.8	86.5	5.6	88.6			75 - 125	35
Thallium	BRL	3.0	<3.3	<3.1	NC	103	108	4.7	92.8			75 - 125	35
Zinc	BRL	0.67	40.5	38.4	5.30	102	104	1.9	89.8			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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# QA/QC Report

December 02, 2021

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 601773 (mg/Kg), QC Sample No: CJ83474 (CJ83473, CJ83474, CJ83475, CJ83476, CJ83477, CJ83478, CJ83479)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	97	96	1.0	89	111	22.0	60 - 120	30
% COD (surr)	69	%	90	120	28.6	102	113	10.2	50 - 150	30
% Terphenyl (surr)	78	%	82	86	4.8	83	96	14.5	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 601755 (mg/Kg), QC Sample No: CJ83259 2X (CJ83473, CJ83474, CJ83475, CJ83476)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	84	85	1.2	93	87	6.7	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	92	83	10.3	95	86	9.9	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	95	%	103	85	19.1	92	85	7.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	76	%	88	86	2.3	86	78	9.8	30 - 150	30
% TCMX (Surrogate Rec)	84	%	90	83	8.1	91	85	6.8	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	80	%	90	83	8.1	89	85	4.6	30 - 150	30
QA/QC Batch 601942 (mg/Kg), QC Sample No: CJ83477 2X (CJ83477, CJ83478, CJ83479)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	79	78	1.3	86	92	6.7	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	79	75	5.2	82	81	1.2	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	72	%	83	80	3.7	85	128	40.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	69	%	79	70	12.1	74	78	5.3	30 - 150	30
% TCMX (Surrogate Rec)	69	%	75	75	0.0	78	84	7.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	68	%	76	76	0.0	77	83	7.5	30 - 150	30
QA/QC Batch 601767 (mg/Kg), QC Sample No: CJ83473 (CJ83473, CJ83476, CJ83477, CJ83478)										
<u>Polynuclear Aromatic HC - Soil</u>										
2-Methylnaphthalene	ND	0.23	78	76	2.6	70	70	0.0	40 - 140	30
Acenaphthene	ND	0.23	84	81	3.6	75	78	3.9	30 - 130	30

QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acenaphthylene	ND	0.23	76	74	2.7	67	71	5.8	40 - 140	30
Anthracene	ND	0.23	87	85	2.3	80	84	4.9	40 - 140	30
Benz(a)anthracene	ND	0.23	90	86	4.5	82	90	9.3	40 - 140	30
Benzo(a)pyrene	ND	0.23	84	81	3.6	78	83	6.2	40 - 140	30
Benzo(b)fluoranthene	ND	0.23	85	86	1.2	79	85	7.3	40 - 140	30
Benzo(ghi)perylene	ND	0.23	98	95	3.1	91	99	8.4	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	80	75	6.5	78	77	1.3	40 - 140	30
Chrysene	ND	0.23	88	82	7.1	79	85	7.3	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23	89	86	3.4	85	92	7.9	40 - 140	30
Fluoranthene	ND	0.23	85	86	1.2	80	82	2.5	40 - 140	30
Fluorene	ND	0.23	84	83	1.2	76	82	7.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23	96	90	6.5	89	95	6.5	40 - 140	30
Naphthalene	ND	0.23	79	78	1.3	68	68	0.0	40 - 140	30
Phenanthrene	ND	0.23	86	85	1.2	81	84	3.6	40 - 140	30
Pyrene	ND	0.23	84	85	1.2	81	81	0.0	30 - 130	30
% 2-Fluorobiphenyl	73	%	69	69	0.0	62	64	3.2	30 - 130	30
% Nitrobenzene-d5	66	%	80	80	0.0	69	64	7.5	30 - 130	30
% Terphenyl-d14	82	%	92	91	1.1	85	82	3.6	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 602458 (mg/Kg), QC Sample No: CJ82884 (CJ83473, CJ83476, CJ83477)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	114	122	6.8				70 - 130	30
1,1,1-Trichloroethane	ND	0.005	109	111	1.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	100	112	11.3				70 - 130	30
1,1,2-Trichloroethane	ND	0.005	97	104	7.0				70 - 130	30
1,1-Dichloroethane	ND	0.005	104	108	3.8				70 - 130	30
1,1-Dichloroethene	ND	0.005	103	111	7.5				70 - 130	30
1,1-Dichloropropene	ND	0.005	104	112	7.4				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	95	107	11.9				70 - 130	30
1,2,3-Trichloropropane	ND	0.005	96	106	9.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	95	106	10.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	96	104	8.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	117	133	12.8				70 - 130	30
1,2-Dibromoethane	ND	0.005	97	108	10.7				70 - 130	30
1,2-Dichlorobenzene	ND	0.005	93	100	7.3				70 - 130	30
1,2-Dichloroethane	ND	0.005	104	112	7.4				70 - 130	30
1,2-Dichloropropane	ND	0.005	100	106	5.8				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	96	104	8.0				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	94	100	6.2				70 - 130	30
1,3-Dichloropropane	ND	0.005	98	107	8.8				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	94	100	6.2				70 - 130	30
2,2-Dichloropropane	ND	0.005	93	96	3.2				70 - 130	30
2-Chlorotoluene	ND	0.005	98	105	6.9				70 - 130	30
2-Hexanone	ND	0.025	98	111	12.4				70 - 130	30
2-Isopropyltoluene	ND	0.005	96	102	6.1				70 - 130	30
4-Chlorotoluene	ND	0.005	97	105	7.9				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	101	115	13.0				70 - 130	30
Acetone	ND	0.01	100	116	14.8				70 - 130	30
Acrylonitrile	ND	0.005	98	115	16.0				70 - 130	30
Benzene	ND	0.001	100	105	4.9				70 - 130	30

QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Bromobenzene	ND	0.005	96	102	6.1				70 - 130	30
Bromochloromethane	ND	0.005	102	111	8.5				70 - 130	30
Bromodichloromethane	ND	0.005	116	128	9.8				70 - 130	30
Bromoform	ND	0.005	134	150	11.3				70 - 130	30
Bromomethane	ND	0.005	137	136	0.7				70 - 130	30
Carbon Disulfide	ND	0.005	100	106	5.8				70 - 130	30
Carbon tetrachloride	ND	0.005	122	127	4.0				70 - 130	30
Chlorobenzene	ND	0.005	96	101	5.1				70 - 130	30
Chloroethane	ND	0.005	137	139	1.4				70 - 130	30
Chloroform	ND	0.005	103	108	4.7				70 - 130	30
Chloromethane	ND	0.005	100	106	5.8				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	101	108	6.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	102	109	6.6				70 - 130	30
Dibromochloromethane	ND	0.003	128	136	6.1				70 - 130	30
Dibromomethane	ND	0.005	103	111	7.5				70 - 130	30
Dichlorodifluoromethane	ND	0.005	98	103	5.0				70 - 130	30
Ethylbenzene	ND	0.001	97	104	7.0				70 - 130	30
Hexachlorobutadiene	ND	0.005	84	97	14.4				70 - 130	30
Isopropylbenzene	ND	0.001	98	105	6.9				70 - 130	30
m&p-Xylene	ND	0.002	96	102	6.1				70 - 130	30
Methyl ethyl ketone	ND	0.005	99	114	14.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	102	112	9.3				70 - 130	30
Methylene chloride	ND	0.005	80	83	3.7				70 - 130	30
Naphthalene	ND	0.005	96	109	12.7				70 - 130	30
n-Butylbenzene	ND	0.001	99	110	10.5				70 - 130	30
n-Propylbenzene	ND	0.001	97	105	7.9				70 - 130	30
o-Xylene	ND	0.002	94	99	5.2				70 - 130	30
p-Isopropyltoluene	ND	0.001	96	105	9.0				70 - 130	30
sec-Butylbenzene	ND	0.001	97	106	8.9				70 - 130	30
Styrene	ND	0.005	89	95	6.5				70 - 130	30
tert-Butylbenzene	ND	0.001	96	104	8.0				70 - 130	30
Tetrachloroethene	ND	0.005	94	105	11.1				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	98	110	11.5				70 - 130	30
Toluene	ND	0.001	97	103	6.0				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	104	111	6.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	101	108	6.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	112	127	12.6				70 - 130	30
Trichloroethene	ND	0.005	97	103	6.0				70 - 130	30
Trichlorofluoromethane	ND	0.005	123	135	9.3				70 - 130	30
Trichlorotrifluoroethane	ND	0.005	89	101	12.6				70 - 130	30
Vinyl chloride	ND	0.005	104	110	5.6				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	102	%	100	101	1.0				70 - 130	30
% Dibromofluoromethane	98	%	100	100	0.0				70 - 130	30
% Toluene-d8	102	%	102	103	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 602611 (mg/Kg), QC Sample No: CJ83420 (CJ83474, CJ83475, CJ83478, CJ83479)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	108	107	0.9	101	97	4.0	70 - 130	30
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QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	0.005	114	116	1.7	112	108	3.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	115	105	9.1	99	98	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	106	100	5.8	96	94	2.1	70 - 130	30
1,1-Dichloroethane	ND	0.005	106	108	1.9	103	102	1.0	70 - 130	30
1,1-Dichloroethene	ND	0.005	110	114	3.6	106	102	3.8	70 - 130	30
1,1-Dichloropropene	ND	0.005	105	107	1.9	100	94	6.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	105	103	1.9	80	74	7.8	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	121	109	10.4	102	101	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	100	98	2.0	79	74	6.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	105	106	0.9	98	91	7.4	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	124	106	15.7	96	96	0.0	70 - 130	30
1,2-Dibromoethane	ND	0.005	108	103	4.7	97	94	3.1	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	103	101	2.0	92	86	6.7	70 - 130	30
1,2-Dichloroethane	ND	0.005	118	112	5.2	107	106	0.9	70 - 130	30
1,2-Dichloropropane	ND	0.005	101	99	2.0	95	93	2.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	106	108	1.9	100	93	7.3	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	100	98	2.0	89	83	7.0	70 - 130	30
1,3-Dichloropropane	ND	0.005	108	104	3.8	99	97	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	101	101	0.0	91	83	9.2	70 - 130	30
2,2-Dichloropropane	ND	0.005	111	114	2.7	106	102	3.8	70 - 130	30
2-Chlorotoluene	ND	0.005	104	105	1.0	97	90	7.5	70 - 130	30
2-Hexanone	ND	0.025	109	94	14.8	81	83	2.4	70 - 130	30
2-Isopropyltoluene	ND	0.005	104	106	1.9	99	90	9.5	70 - 130	30
4-Chlorotoluene	ND	0.005	104	106	1.9	95	90	5.4	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	120	101	17.2	94	92	2.2	70 - 130	30
Acetone	ND	0.01	120	104	14.3	98	99	1.0	70 - 130	30
Acrylonitrile	ND	0.005	110	100	9.5	89	90	1.1	70 - 130	30
Benzene	ND	0.001	101	101	0.0	96	92	4.3	70 - 130	30
Bromobenzene	ND	0.005	101	103	2.0	95	91	4.3	70 - 130	30
Bromochloromethane	ND	0.005	108	107	0.9	102	101	1.0	70 - 130	30
Bromodichloromethane	ND	0.005	112	110	1.8	104	102	1.9	70 - 130	30
Bromoform	ND	0.005	113	104	8.3	89	91	2.2	70 - 130	30
Bromomethane	ND	0.005	121	130	7.2	123	116	5.9	70 - 130	30
Carbon Disulfide	ND	0.005	104	105	1.0	96	93	3.2	70 - 130	30
Carbon tetrachloride	ND	0.005	118	120	1.7	111	106	4.6	70 - 130	30
Chlorobenzene	ND	0.005	101	102	1.0	95	90	5.4	70 - 130	30
Chloroethane	ND	0.005	125	131	4.7	124	122	1.6	70 - 130	30
Chloroform	ND	0.005	110	108	1.8	106	103	2.9	70 - 130	30
Chloromethane	ND	0.005	106	107	0.9	96	92	4.3	70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	104	105	1.0	102	99	3.0	70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	105	103	1.9	95	94	1.1	70 - 130	30
Dibromochloromethane	ND	0.003	114	109	4.5	101	99	2.0	70 - 130	30
Dibromomethane	ND	0.005	115	111	3.5	102	100	2.0	70 - 130	30
Dichlorodifluoromethane	ND	0.005	133	134	0.7	113	107	5.5	70 - 130	30
Ethylbenzene	ND	0.001	100	102	2.0	94	89	5.5	70 - 130	30
Hexachlorobutadiene	ND	0.005	95	99	4.1	76	67	12.6	70 - 130	30
Isopropylbenzene	ND	0.001	105	108	2.8	100	94	6.2	70 - 130	30
m&p-Xylene	ND	0.002	100	102	2.0	95	89	6.5	70 - 130	30
Methyl ethyl ketone	ND	0.005	115	100	14.0	90	90	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	119	109	8.8	108	107	0.9	70 - 130	30
Methylene chloride	ND	0.005	95	95	0.0	96	94	2.1	70 - 130	30
Naphthalene	ND	0.005	117	106	9.9	87	84	3.5	70 - 130	30
n-Butylbenzene	ND	0.001	110	113	2.7	98	88	10.8	70 - 130	30

## QA/QC Data

SDG I.D.: GCJ83473

Parameter	Blank	Blk RL	LCS	LCSD	LCS	MS	MSD	MS	%	%
			%	%	RPD	%	%	RPD	Rec Limits	RPD Limits
n-Propylbenzene	ND	0.001	104	107	2.8	98	91	7.4	70 - 130	30
o-Xylene	ND	0.002	101	102	1.0	95	91	4.3	70 - 130	30
p-Isopropyltoluene	ND	0.001	106	109	2.8	98	89	9.6	70 - 130	30
sec-Butylbenzene	ND	0.001	106	110	3.7	99	90	9.5	70 - 130	30
Styrene	ND	0.005	86	85	1.2	78	74	5.3	70 - 130	30
tert-Butylbenzene	ND	0.001	105	108	2.8	101	93	8.2	70 - 130	30
Tetrachloroethene	ND	0.005	100	100	0.0	91	86	5.6	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	117	100	15.7	93	94	1.1	70 - 130	30
Toluene	ND	0.001	102	102	0.0	97	92	5.3	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	111	111	0.0	106	104	1.9	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	109	106	2.8	98	95	3.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	114	105	8.2	90	90	0.0	70 - 130	30
Trichloroethene	ND	0.005	101	100	1.0	94	90	4.3	70 - 130	30
Trichlorofluoromethane	ND	0.005	121	123	1.6	115	110	4.4	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	99	100	1.0	93	86	7.8	70 - 130	30
Vinyl chloride	ND	0.005	116	118	1.7	108	104	3.8	70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	102	100	2.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	102	%	102	101	1.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	92	%	96	96	0.0	97	97	0.0	70 - 130	30
% Toluene-d8	96	%	102	101	1.0	101	101	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

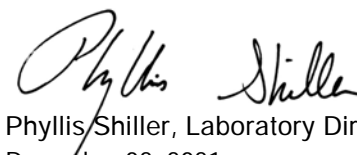
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director  
December 02, 2021



Thursday, December 02, 2021

Criteria: RI: Com, GB LEACH, RC

State: RI

## Sample Criteria Exceedances Report

**GCJ83473 - SAGE**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ83476	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Com)	1100	280	800	800	ug/Kg
CJ83476	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	400	400	ug/Kg
CJ83476	\$8100SMR	Benzo(b)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	\$8100SMR	Benzo(k)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	\$8100SMR	Chrysene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1200	280	400	400	ug/Kg
CJ83476	\$8100SMR	Benzo(a)anthracene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1100	280	900	900	ug/Kg
CJ83476	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Com)	29.3	0.84	7	7	mg/Kg
CJ83476	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Res)	29.3	0.84	7	7	mg/Kg
CJ83476	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.84	0.33	0.4	0.4	mg/Kg
CJ83477	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Com)	2200	270	800	800	ug/Kg
CJ83477	\$8100SMR	Benzo(a)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2200	270	400	400	ug/Kg
CJ83477	\$8100SMR	Benzo(b)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2500	270	900	900	ug/Kg
CJ83477	\$8100SMR	Benzo(ghi)perylene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1200	270	800	800	ug/Kg
CJ83477	\$8100SMR	Benzo(k)fluoranthene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2000	270	900	900	ug/Kg
CJ83477	\$8100SMR	Chrysene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2600	270	400	400	ug/Kg
CJ83477	\$8100SMR	Indeno(1,2,3-cd)pyrene	RI / Direct Exposure Criteria / Semivolatiles (Res)	1500	270	900	900	ug/Kg
CJ83477	\$8100SMR	Benzo(a)anthracene	RI / Direct Exposure Criteria / Semivolatiles (Res)	2400	270	900	900	ug/Kg
CJ83477	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Com)	8.01	0.79	7	7	mg/Kg
CJ83477	AS-SM	Arsenic	RI / Direct Exposure Criteria / Inorganics (Res)	8.01	0.79	7	7	mg/Kg
CJ83477	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.71	0.32	0.4	0.4	mg/Kg
CJ83478	BE-SM	Beryllium	RI / Direct Exposure Criteria / Inorganics (Res)	0.51	0.29	0.4	0.4	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 02, 2021

SDG I.D.: GCJ83473

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **SVOA Narration**

**CHEM06 11/22/21-2:** CJ83473, CJ83476, CJ83477, CJ83478

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Continuing Calibration compounds did not meet recommended response factors: Acenaphthene 0.839 (0.9)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

### **VOA Narration**

**CHEM18 11/30/21-1:** CJ83474, CJ83475, CJ83478, CJ83479

The following Initial Calibration compounds did not meet RSD% criteria: Methylene chloride 21% (20%), Styrene 30% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM26 11/29/21-1:** CJ83473, CJ83476, CJ83477

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 26% (20%), Bromoform 35% (20%), Carbon tetrachloride 21% (20%), Dibromochloromethane 24% (20%), Methylene chloride 33% (20%), trans-1,4-dichloro-2-butene 32% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.071 (0.1), Tetrachloroethene 0.179 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromoform 39%H (30%), Bromomethane 38%H (30%),

Chloroethane 38%H (30%), Dibromochloromethane 33%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



### CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant: IPK  Yes  No   
 ICE  Yes  No   
 Temp 17 °C Pg 1 of 1

**Data Delivery/Contact Options:**

Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer: SAGE ENVIRONMENTAL  
 Address: 172 ARMISTICE BLVD  
PAWTUCKET, RI 02860

Project: 53977  
 Report to: data@sage-enviro.com  
 Invoice to: \_\_\_\_\_  
 QUOTE # \_\_\_\_\_

Project P.O.: \_\_\_\_\_

**This section MUST be completed with Bottle Quantities.**

**Client Sample Information - Identification**  
 Sampler's Signature: [Signature] Date: 11/19/21

**Matrix Code:**  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X= (Other)

Analysis Request					VOCS	PAHs	PCBs	TPH	MS/MSD*	GL Amber 8 oz w/13PO4	Soil VOA Vials (1) methano (2) H2O	GL Soil container ( 8 ) oz	40 ml VOA Vial ( ) oz	GL Amber 1000ml ( ) HCl	PL As is ( ) 1250ml ( ) 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle with/wo	Bacteria Bottle as is
83473	SE-101(0'-2')	S	11/19/21	9:00	X	X	X	X	X	X	X								
83474	SE-101(10'-15')			9:30	X	X	X												
83475	SE-102(10'-15')			10:30	X	X	X												
83476	SE-103(0'-2')			11:30	X	X	X	X											
83477	SE-104(0'-2')			12:30	X	X	X	X											
83478	SE-105(0'-2')			13:30	X	X	X	X											
83479	SE-105(10'-15')			14:00	X	X	X												

Reinquished by: [Signature]

Accepted by: [Signature]

Date: 11-22-21 Time: 9:10  
11/22 1524

**RI**  
 (Residential) Direct Exposure  
 (Comm/Industrial) Direct Exposure  
 GA Leachability  
 GB Leachability  
 GA-GW Objectives  
 GB-GW Objectives

**CT**  
 RCP Cert  
 GW Protection  
 SW Protection  
 GA Mobility  
 GB Mobility  
 Residential DEC  
 I/C DEC  
 Other

**MA**  
 MCP Certification  
 GW-1  MWRA eSMART  
 GW-2  S-1 10% CALC  
 GW-3  
 S-1 GW-1  S-1 GW-2  S-1 GW-3  
 S-2 GW-1  S-2 GW-2  S-2 GW-3  
 S-3 GW-1  S-3 GW-2  S-3 GW-3  
 SW Protection

**Data Format**  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 Other  
**Data Package**  
 Tier II Checklist  
 Full Data Package\*  
 Phoenix Std Report  
 Other

Comments, Special Requirements or Regulations:  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other  
 \* SURCHARGE APPLIES

State where samples were collected: RI

\* SURCHARGE APPLIES

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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Monday, January 03, 2022

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK04452  
Sample ID#s: CK04452 - CK04457

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

January 03, 2022

SDG I.D.: GCK04452

Project ID: S3977

---

Client Id	Lab Id	Matrix
SE-201 (0`-2`)	CK04452	SOIL
SE-202 (0`-2`)	CK04453	SOIL
SE-203 (0`-2`)	CK04454	SOIL
SE-204 (2`-4`)	CK04455	SOIL
SE-205 (4`-6`)	CK04456	SOIL
SE-203 (4`-6`)	CK04457	SOIL



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

9:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04452

Project ID: S3977  
 Client ID: SE-201 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0033	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.27	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0033	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.033	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.26	0.22	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	0.4	0.22	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0054	mg/Kg	1	12/28/21	JLI	SW8260C

**QA/QC Surrogates**

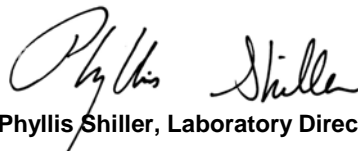


Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	97		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

## Date

12/21/21  
12/22/21

## Time

10:30  
13:17

## Laboratory Data

SDG ID: GCK04452  
Phoenix ID: CK04453

Project ID: S3977  
Client ID: SE-202 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	12/30/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
2-Hexanone	ND	0.03	mg/Kg	1	12/30/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.03	mg/Kg	1	12/30/21	JLI	SW8260C
Acetone	ND	0.3	mg/Kg	1	12/30/21	JLI	SW8260C
Acrylonitrile	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Benzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromochloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromodichloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromoform	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Bromomethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Carbon Disulfide	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chlorobenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloroethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloroform	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Chloromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Dibromochloromethane	ND	0.0036	mg/Kg	1	12/30/21	JLI	SW8260C
Dibromomethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Ethylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Isopropylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
m&p-Xylene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.036	mg/Kg	1	12/30/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Naphthalene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
n-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
n-Propylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
o-Xylene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Styrene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Tetrachloroethene	0.86	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Toluene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Total Xylenes	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Trichloroethene	0.77	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	12/30/21	JLI	SW8260C
Vinyl chloride	ND	0.0059	mg/Kg	1	12/30/21	JLI	SW8260C

**QA/QC Surrogates**

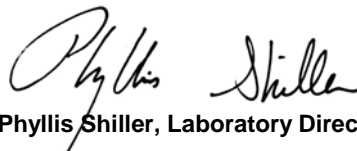
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane	70		%	1	12/30/21	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/30/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

11:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04454

Project ID: S3977  
 Client ID: SE-203 (0`-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	0.57	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	0.27	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	0.22	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.0042	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	0.49	0.21	mg/Kg	50	12/30/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	12/28/21	JLI	SW8260C

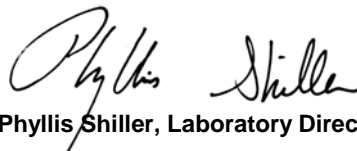
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	101		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

## Date

12/21/21  
12/22/21

## Time

12:30  
13:17

## Laboratory Data

SDG ID: GCK04452  
Phoenix ID: CK04455

Project ID: S3977  
Client ID: SE-204 (2`-4`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.027	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.27	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0032	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.032	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	0.16	0.15	mg/Kg	50	12/30/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	0.085	0.083	mg/Kg	50	12/30/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0053	mg/Kg	1	12/28/21	JLI	SW8260C

**QA/QC Surrogates**

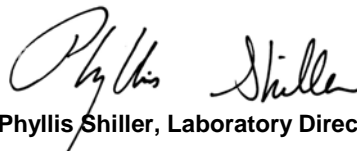
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	99		%	1	12/28/21	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	12/30/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	12/30/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	12/30/21	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	12/30/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

13:30  
 13:17

Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04456

Project ID: S3977  
 Client ID: SE-205 (4`-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0029	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.029	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0098	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0049	mg/Kg	1	12/28/21	JLI	SW8260C

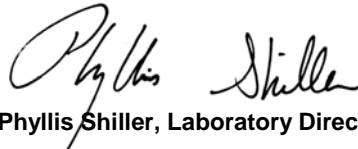
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	101		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/28/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

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**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2022

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: SOIL  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/21/21  
 12/22/21

Time

11:40  
 13:17

## Laboratory Data

SDG ID: GCK04452  
 Phoenix ID: CK04457

Project ID: S3977  
 Client ID: SE-203 (4`-6`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		12/23/21	C	SW846-%Solid
Field Extraction	Completed				12/21/21		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	12/28/21	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,1-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dibromoethane	ND	0.00057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,2-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,3-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2,2-Dichloropropane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2-Chlorotoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	12/28/21	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
4-Chlorotoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	12/28/21	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	12/28/21	JLI	SW8260C
Acrylonitrile	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Benzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromochloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromodichloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromoform	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Bromomethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon Disulfide	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Carbon tetrachloride	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chlorobenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloroform	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Chloromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	12/28/21	JLI	SW8260C
Dibromomethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Ethylbenzene	0.0083	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Hexachlorobutadiene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Isopropylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
m&p-Xylene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	12/28/21	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Naphthalene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
n-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
n-Propylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
o-Xylene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
p-Isopropyltoluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
sec-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Styrene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
tert-Butylbenzene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrachloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Toluene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Total Xylenes	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Trichloroethene	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorofluoromethane	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/28/21	JLI	SW8260C
Vinyl chloride	ND	0.0057	mg/Kg	1	12/28/21	JLI	SW8260C

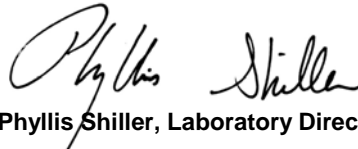
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100		%	1	12/28/21	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	12/28/21	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	12/28/21	JLI	70 - 130 %
% Toluene-d8	100		%	1	12/28/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 03, 2022**

**Reviewed and Released by: Ethan Lee, Project Manager**





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# QA/QC Report

January 03, 2022

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blank	Bk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 606679 (mg/Kg), QC Sample No: CK03724 (CK04453)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	0.005	96	109	12.7	105	108	2.8	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	93	106	13.1	99	101	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	91	98	7.4	100	101	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	92	101	9.3	101	103	2.0	70 - 130	30
1,1-Dichloroethane	ND	0.005	93	104	11.2	101	103	2.0	70 - 130	30
1,1-Dichloroethene	ND	0.005	89	104	15.5	94	97	3.1	70 - 130	30
1,1-Dichloropropene	ND	0.005	94	109	14.8	102	105	2.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	91	103	12.4	99	103	4.0	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	95	101	6.1	101	102	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	92	105	13.2	100	104	3.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	92	107	15.1	102	106	3.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	96	101	5.1	101	102	1.0	70 - 130	30
1,2-Dibromoethane	ND	0.005	96	105	9.0	104	106	1.9	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	89	101	12.6	99	102	3.0	70 - 130	30
1,2-Dichloroethane	ND	0.005	92	101	9.3	98	99	1.0	70 - 130	30
1,2-Dichloropropane	ND	0.005	93	104	11.2	103	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	96	111	14.5	105	109	3.7	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	91	104	13.3	100	104	3.9	70 - 130	30
1,3-Dichloropropane	ND	0.005	96	105	9.0	105	106	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	89	102	13.6	98	101	3.0	70 - 130	30
2,2-Dichloropropane	ND	0.005	98	112	13.3	101	103	2.0	70 - 130	30
2-Chlorotoluene	ND	0.005	94	109	14.8	105	109	3.7	70 - 130	30
2-Hexanone	ND	0.025	93	97	4.2	98	100	2.0	70 - 130	30
2-Isopropyltoluene	ND	0.005	94	109	14.8	103	106	2.9	70 - 130	30
4-Chlorotoluene	ND	0.005	93	107	14.0	103	106	2.9	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	95	100	5.1	101	102	1.0	70 - 130	30
Acetone	ND	0.01	80	86	7.2	91	91	0.0	70 - 130	30
Acrylonitrile	ND	0.005	90	94	4.3	94	96	2.1	70 - 130	30
Benzene	ND	0.001	91	104	13.3	101	103	2.0	70 - 130	30
Bromobenzene	ND	0.005	94	106	12.0	104	107	2.8	70 - 130	30
Bromochloromethane	ND	0.005	91	102	11.4	102	103	1.0	70 - 130	30
Bromodichloromethane	ND	0.005	91	103	12.4	100	102	2.0	70 - 130	30
Bromoform	ND	0.005	96	104	8.0	100	102	2.0	70 - 130	30
Bromomethane	ND	0.005	91	105	14.3	96	98	2.1	70 - 130	30
Carbon Disulfide	ND	0.005	85	99	15.2	87	88	1.1	70 - 130	30
Carbon tetrachloride	ND	0.005	85	118	32.5	88	111	23.1	70 - 130	30
Chlorobenzene	ND	0.005	92	105	13.2	102	104	1.9	70 - 130	30
Chloroethane	ND	0.005	90	107	17.3	93	94	1.1	70 - 130	30
Chloroform	ND	0.005	92	103	11.3	99	102	3.0	70 - 130	30
Chloromethane	ND	0.005	84	95	12.3	84	86	2.4	70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	92	104	12.2	101	103	2.0	70 - 130	30

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,3-Dichloropropene	ND	0.005	96	108	11.8	105	108	2.8	70 - 130	30
Dibromochloromethane	ND	0.003	95	105	10.0	104	105	1.0	70 - 130	30
Dibromomethane	ND	0.005	93	102	9.2	102	103	1.0	70 - 130	30
Dichlorodifluoromethane	ND	0.005	78	88	12.0	72	72	0.0	70 - 130	30
Ethylbenzene	ND	0.001	94	108	13.9	103	106	2.9	70 - 130	30
Hexachlorobutadiene	ND	0.005	95	112	16.4	88	94	6.6	70 - 130	30
Isopropylbenzene	ND	0.001	96	112	15.4	106	111	4.6	70 - 130	30
m&p-Xylene	ND	0.002	93	107	14.0	103	106	2.9	70 - 130	30
Methyl ethyl ketone	ND	0.005	91	90	1.1	92	92	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	93	101	8.2	100	101	1.0	70 - 130	30
Methylene chloride	ND	0.005	81	93	13.8	92	92	0.0	70 - 130	30
Naphthalene	ND	0.005	96	106	9.9	105	107	1.9	70 - 130	30
n-Butylbenzene	ND	0.001	95	112	16.4	101	106	4.8	70 - 130	30
n-Propylbenzene	ND	0.001	94	110	15.7	106	109	2.8	70 - 130	30
o-Xylene	ND	0.002	94	108	13.9	105	107	1.9	70 - 130	30
p-Isopropyltoluene	ND	0.001	96	113	16.3	105	109	3.7	70 - 130	30
sec-Butylbenzene	ND	0.001	96	112	15.4	104	108	3.8	70 - 130	30
Styrene	ND	0.005	98	111	12.4	108	111	2.7	70 - 130	30
tert-Butylbenzene	ND	0.001	96	112	15.4	106	110	3.7	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	88	92	4.4	93	94	1.1	70 - 130	30
Toluene	ND	0.001	91	104	13.3	101	104	2.9	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	91	105	14.3	97	99	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	99	108	8.7	105	108	2.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	102	108	5.7	105	107	1.9	70 - 130	30
Trichlorofluoromethane	ND	0.005	93	108	14.9	93	95	2.1	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	82	96	15.7	85	88	3.5	70 - 130	30
Vinyl chloride	ND	0.005	91	104	13.3	93	94	1.1	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	95	%	102	101	1.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	100	%	101	100	1.0	100	98	2.0	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	100	101	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606679H (mg/Kg), QC Sample No: CK03724 (CK04452 (50X) , CK04453 (50X) )

### Volatiles - Soil (High Level)

Tetrachloroethene	ND	0.005	117	119	1.7	103	115	11.0	70 - 130	30
Trichloroethene	ND	0.005	114	114	0.0	100	111	10.4	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	94	%	101	100	1.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	95	%	93	95	2.1	94	96	2.1	70 - 130	30
% Toluene-d8	98	%	100	100	0.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606393 (mg/Kg), QC Sample No: CK04456 (CK04452, CK04454, CK04455, CK04456, CK04457)

### Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	114	110	3.6	105	104	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	108	103	4.7	100	92	8.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	97	91	6.4	89	77	14.5	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	97	89	8.6	83	77	7.5	70 - 130	30
1,1-Dichloroethane	ND	0.005	96	92	4.3	91	84	8.0	70 - 130	30

## QA/QC Data

SDG I.D.: GCK04452

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,1-Dichloroethene	ND	0.005	119	116	2.6	116	118	1.7	70 - 130	30	
1,1-Dichloropropene	ND	0.005	96	92	4.3	87	77	12.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	104	99	4.9	64	56	13.3	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	109	104	4.7	99	97	2.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	109	102	6.6	63	55	13.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	108	103	4.7	92	88	4.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	100	92	8.3	80	76	5.1	70 - 130	30	
1,2-Dibromoethane	ND	0.005	102	92	10.3	87	83	4.7	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	111	107	3.7	92	87	5.6	70 - 130	30	
1,2-Dichloroethane	ND	0.005	103	99	4.0	95	86	9.9	70 - 130	30	
1,2-Dichloropropane	ND	0.005	89	85	4.6	82	74	10.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	109	105	3.7	94	90	4.3	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	105	99	5.9	84	81	3.6	70 - 130	30	
1,3-Dichloropropane	ND	0.005	101	95	6.1	87	81	7.1	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	109	105	3.7	88	84	4.7	70 - 130	30	
2,2-Dichloropropane	ND	0.005	123	118	4.1	108	98	9.7	70 - 130	30	
2-Chlorotoluene	ND	0.005	105	99	5.9	92	86	6.7	70 - 130	30	
2-Hexanone	ND	0.025	93	83	11.4	71	68	4.3	70 - 130	30	m
2-Isopropyltoluene	ND	0.005	107	105	1.9	92	88	4.4	70 - 130	30	
4-Chlorotoluene	ND	0.005	106	101	4.8	90	85	5.7	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	93	90	3.3	80	71	11.9	70 - 130	30	
Acetone	ND	0.01	98	93	5.2	97	98	1.0	70 - 130	30	
Acrylonitrile	ND	0.005	90	83	8.1	77	67	13.9	70 - 130	30	m
Benzene	ND	0.001	98	95	3.1	92	89	3.3	70 - 130	30	
Bromobenzene	ND	0.005	104	99	4.9	92	87	5.6	70 - 130	30	
Bromochloromethane	ND	0.005	107	100	6.8	98	95	3.1	70 - 130	30	
Bromodichloromethane	ND	0.005	98	93	5.2	88	83	5.8	70 - 130	30	
Bromoform	ND	0.005	116	113	2.6	104	102	1.9	70 - 130	30	
Bromomethane	ND	0.005	125	117	6.6	123	129	4.8	70 - 130	30	
Carbon Disulfide	ND	0.005	112	110	1.8	104	100	3.9	70 - 130	30	
Carbon tetrachloride	ND	0.005	126	121	4.0	116	109	6.2	70 - 130	30	
Chlorobenzene	ND	0.005	110	105	4.7	99	98	1.0	70 - 130	30	
Chloroethane	ND	0.005	118	115	2.6	115	120	4.3	70 - 130	30	
Chloroform	ND	0.005	102	99	3.0	97	89	8.6	70 - 130	30	
Chloromethane	ND	0.005	68	64	6.1	61	59	3.3	70 - 130	30	l,m
cis-1,2-Dichloroethene	ND	0.005	99	95	4.1	92	85	7.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	100	94	6.2	87	79	9.6	70 - 130	30	
Dibromochloromethane	ND	0.003	104	100	3.9	93	88	5.5	70 - 130	30	
Dibromomethane	ND	0.005	99	91	8.4	88	81	8.3	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	72	69	4.3	65	62	4.7	70 - 130	30	l,m
Ethylbenzene	ND	0.001	110	106	3.7	97	96	1.0	70 - 130	30	
Hexachlorobutadiene	ND	0.005	97	95	2.1	55	47	15.7	70 - 130	30	m
Isopropylbenzene	ND	0.001	104	100	3.9	93	88	5.5	70 - 130	30	
m&p-Xylene	ND	0.002	113	108	4.5	100	99	1.0	70 - 130	30	
Methyl ethyl ketone	ND	0.005	90	80	11.8	71	67	5.8	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	0.001	124	119	4.1	118	118	0.0	70 - 130	30	
Methylene chloride	ND	0.005	102	99	3.0	105	107	1.9	70 - 130	30	
Naphthalene	ND	0.005	105	100	4.9	75	67	11.3	70 - 130	30	m
n-Butylbenzene	ND	0.001	108	104	3.8	78	74	5.3	70 - 130	30	
n-Propylbenzene	ND	0.001	106	100	5.8	89	86	3.4	70 - 130	30	
o-Xylene	ND	0.002	105	101	3.9	94	92	2.2	70 - 130	30	
p-Isopropyltoluene	ND	0.001	109	105	3.7	87	83	4.7	70 - 130	30	
sec-Butylbenzene	ND	0.001	107	103	3.8	88	85	3.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCK04452

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Styrene	ND	0.005	112	108	3.6	99	97	2.0	70 - 130	30	
tert-Butylbenzene	ND	0.001	106	103	2.9	95	90	5.4	70 - 130	30	
Tetrachloroethene	ND	0.005	94	89	5.5	75	69	8.3	70 - 130	30	m
Tetrahydrofuran (THF)	ND	0.005	89	86	3.4	78	69	12.2	70 - 130	30	m
Toluene	ND	0.001	99	95	4.1	92	89	3.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	118	114	3.4	114	116	1.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	115	108	6.3	100	91	9.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	131	123	6.3	107	104	2.8	70 - 130	30	l
Trichloroethene	ND	0.005	102	99	3.0	92	89	3.3	70 - 130	30	
Trichlorofluoromethane	ND	0.005	119	116	2.6	118	119	0.8	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	110	107	2.8	108	108	0.0	70 - 130	30	
Vinyl chloride	ND	0.005	102	99	3.0	100	100	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	103	102	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	91	%	96	94	2.1	93	92	1.1	70 - 130	30	
% Dibromofluoromethane	94	%	95	94	1.1	93	89	4.4	70 - 130	30	
% Toluene-d8	98	%	93	92	1.1	93	91	2.2	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 606674H (mg/Kg), QC Sample No: CK07092 (CK04454 (50X) , CK04455 (50X) )

Volatiles - Soil (High Level)

Ethylbenzene	ND	0.005	105	106	0.9	106	107	0.9	70 - 130	30	
m&p-Xylene	ND	0.005	102	103	1.0	103	104	1.0	70 - 130	30	
o-Xylene	ND	0.005	104	103	1.0	103	105	1.9	70 - 130	30	
Tetrachloroethene	ND	0.005	109	109	0.0	109	110	0.9	70 - 130	30	
Trichloroethene	ND	0.005	104	106	1.9	105	105	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	100	0.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	98	95	3.1	94	96	2.1	70 - 130	30	
% Toluene-d8	93	%	102	102	0.0	101	101	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

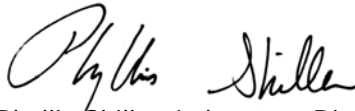
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 January 03, 2022

Monday, January 03, 2022

Criteria: RI: GB LEACH, RC

State: RI

## Sample Criteria Exceedances Report

GCK04452 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

January 03, 2022

SDG I.D.: GCK04452

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **VOA Narration**

**CHEM03 12/28/21-1:** CK04452, CK04454, CK04455, CK04456, CK04457

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 23% (20%), Chloroethane 24% (20%), Methylene chloride 22% (20%), trans-1,4-dichloro-2-butene 25% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.068 (0.1), Tetrachloroethene 0.164 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Chloromethane 36%L (30%), Dichlorodifluoromethane 32%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

**CHEM03 12/30/21-1:** CK04452, CK04453

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.057 (0.1), Tetrachloroethene 0.162 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Acetone 0.045 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: Acetone 0.057 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



## CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**

Coolant: Yes  No   
 IPK  ICE

Temp 22°C Pg of

**Data Delivery/Contact Options:**

Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

Customer: SAGE ENVIRONMENTAL  
 Address: 172 ARMISTICE BLVD  
PAWTUCKET, RI 02860

Project: ~~XXXXXXXXXX~~ S3977  
 Report to: \_\_\_\_\_  
 Invoice to: \_\_\_\_\_  
 QUOTE # \_\_\_\_\_

Project P.O.: \_\_\_\_\_

**This section MUST be completed with Bottle Quantities.**

Client Sample - Information - Identification  
 Sampler's Signature: [Signature] Date: 12/21/21

**Matrix Code:**  
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X = (Other)

Analysis Request	VOCs	MS/MSD*	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (1) methanol (2) H2O	GL Soil container ( 8 ) oz	GL Soil container ( ) oz	40 ml VOA Vial ( ) As is ( ) HCL	GL Amber 1000ml ( ) As is ( ) H2SO4	PL H2SO4 ( ) 250ml ( ) 500ml ( ) 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle with/wo	Bacteria Bottle as is
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PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled									
04452	SE-201(0'-2')	S	12/21/21	9:30	X								
04453	SE-202(0'-2')			10:30									
04454	SE-203(0'-2')			11:30									
04455	SE-204(2'-4')			12:30									
04456	SE-205(4'-6')			13:30									
04457	SE-203(4'-6')			11:40									

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 12/21/21 Time: 1000  
12/22 1317

**RI**  
 (Residential) Direct Exposure  
 (Comm/Industrial) Direct Exposure  
 GA Leachability  
 GB Leachability  
 GA-GW Objectives  
 GB-GW Objectives

**CT**  
 RCP Cert  
 GW Protection  
 SW Protection  
 GA Mobility  
 GB Mobility  
 Residential DEC  
 I/C DEC  
 Other

**MA**  
 MCP Certification  
 GW-1  MWRA eSMART  
 GW-2  S-1 10% CALC  
 GW-3  
 S-1 GW-1  S-1 GW-2  S-1 GW-3  
 S-2 GW-1  S-2 GW-2  S-2 GW-3  
 S-3 GW-1  S-3 GW-2  S-3 GW-3  
 SW Protection

**Data Format**  
 Excel  
 PDF  
 GIS/Key  
 EQulS  
 Other  
**Data Package**  
 Tier II Checklist  
 Full Data Package\*  
 Phoenix Std Report  
 Other

Comments, Special Requirements or Regulations: \_\_\_\_\_  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other  
 \* SURCHARGE APPLIES

State where samples were collected: RI

\* SURCHARGE APPLIES

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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Friday, January 07, 2022

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK09786  
Sample ID#s: CK09786 - CK09787

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

January 07, 2022

SDG I.D.: GCK09786

Project ID: S3977

---

Client Id	Lab Id	Matrix
SE-301 (25-28)	CK09786	SOIL
SE-302 (10-15)	CK09787	SOIL



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 07, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

Date                      Time  
01/04/22  
01/05/22                      12:42

## Laboratory Data

SDG ID: GCK09786  
Phoenix ID: CK09786

Project ID: S3977  
Client ID: SE-301 (25-28)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		01/05/22	JS	SW846-%Solid
Field Extraction	Completed				01/04/22		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromoethane	ND	0.00042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2,2-Dichloropropane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2-Chlorotoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	01/06/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
4-Chlorotoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	01/06/22	JLI	SW8260C
Acetone	ND	0.21	mg/Kg	1	01/06/22	JLI	SW8260C
Acrylonitrile	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Benzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromochloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromodichloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromoform	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Bromomethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon Disulfide	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon tetrachloride	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chlorobenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroform	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Chloromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromomethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Ethylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Hexachlorobutadiene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Isopropylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
m&p-Xylene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Methylene chloride	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Naphthalene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
n-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
n-Propylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
o-Xylene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
p-Isopropyltoluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
sec-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Styrene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
tert-Butylbenzene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrachloroethene	0.21	0.21	mg/Kg	50	01/07/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Toluene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Total Xylenes	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Trichloroethene	0.23	0.23	mg/Kg	50	01/07/22	JLI	SW8260C
Trichlorofluoromethane	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0083	mg/Kg	1	01/06/22	JLI	SW8260C
Vinyl chloride	ND	0.0042	mg/Kg	1	01/06/22	JLI	SW8260C

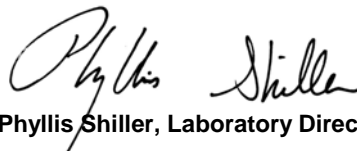
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	102		%	1	01/06/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/06/22	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	01/06/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/06/22	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	01/07/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	01/07/22	JLI	70 - 130 %
% Dibromofluoromethane (50x)	102		%	50	01/07/22	JLI	70 - 130 %
% Toluene-d8 (50x)	100		%	50	01/07/22	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 07, 2022**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 07, 2022

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: SOIL  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:

## Custody Information

Collected by:  
Received by: CP  
Analyzed by: see "By" below

Date                      Time  
01/04/22  
01/05/22                      12:42

## Laboratory Data

SDG ID: GCK09786  
Phoenix ID: CK09787

Project ID: S3977  
Client ID: SE-302 (10-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		01/05/22	JS	SW846-%Solid
Field Extraction	Completed				01/04/22		SW5035A

## Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	01/06/22	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,1-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dibromoethane	ND	0.00043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,2-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,3-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2,2-Dichloropropane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2-Chlorotoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	01/06/22	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
4-Chlorotoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	01/06/22	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	01/06/22	JLI	SW8260C
Acrylonitrile	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Benzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromochloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromodichloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromoform	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Bromomethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon Disulfide	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Carbon tetrachloride	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chlorobenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloroform	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Chloromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	01/06/22	JLI	SW8260C
Dibromomethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Ethylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Hexachlorobutadiene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Isopropylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
m&p-Xylene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	01/06/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Methylene chloride	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Naphthalene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
n-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
n-Propylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
o-Xylene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
p-Isopropyltoluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
sec-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Styrene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
tert-Butylbenzene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrachloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Toluene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Total Xylenes	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Trichloroethene	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorofluoromethane	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0086	mg/Kg	1	01/06/22	JLI	SW8260C
Vinyl chloride	ND	0.0043	mg/Kg	1	01/06/22	JLI	SW8260C

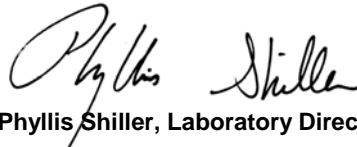
**QA/QC Surrogates**

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	102		%	1	01/06/22	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	01/06/22	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	01/06/22	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/06/22	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.  
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**January 07, 2022**

**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

January 07, 2022

## QA/QC Data

SDG I.D.: GCK09786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 607214 (mg/Kg), QC Sample No: CK09767 (CK09786, CK09787)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	0.005	100	105	4.9	88			70 - 130	30
1,1,1-Trichloroethane	ND	0.005	100	107	6.8	97			70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	101	105	3.9	84			70 - 130	30
1,1,2-Trichloroethane	ND	0.005	98	103	5.0	91			70 - 130	30
1,1-Dichloroethane	ND	0.005	105	111	5.6	103			70 - 130	30
1,1-Dichloroethene	ND	0.005	102	108	5.7	101			70 - 130	30
1,1-Dichloropropene	ND	0.005	102	107	4.8	98			70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	100	102	2.0	40			70 - 130	30 m
1,2,3-Trichloropropane	ND	0.005	104	109	4.7	94			70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	103	104	1.0	42			70 - 130	30 m
1,2,4-Trimethylbenzene	ND	0.001	100	103	3.0	67			70 - 130	30 m
1,2-Dibromo-3-chloropropane	ND	0.005	99	102	3.0	78			70 - 130	30
1,2-Dibromoethane	ND	0.005	101	105	3.9	91			70 - 130	30
1,2-Dichlorobenzene	ND	0.005	96	101	5.1	58			70 - 130	30 m
1,2-Dichloroethane	ND	0.005	98	103	5.0	93			70 - 130	30
1,2-Dichloropropane	ND	0.005	102	107	4.8	100			70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	101	107	5.8	76			70 - 130	30
1,3-Dichlorobenzene	ND	0.005	98	102	4.0	63			70 - 130	30 m
1,3-Dichloropropane	ND	0.005	102	106	3.8	95			70 - 130	30
1,4-Dichlorobenzene	ND	0.005	97	100	3.0	62			70 - 130	30 m
2,2-Dichloropropane	ND	0.005	108	115	6.3	104			70 - 130	30
2-Chlorotoluene	ND	0.005	100	105	4.9	74			70 - 130	30
2-Hexanone	ND	0.025	106	108	1.9	87			70 - 130	30
2-Isopropyltoluene	ND	0.005	100	104	3.9	68			70 - 130	30 m
4-Chlorotoluene	ND	0.005	101	105	3.9	73			70 - 130	30
4-Methyl-2-pentanone	ND	0.025	111	115	3.5	103			70 - 130	30
Acetone	ND	0.01	106	109	2.8	93			70 - 130	30
Acrylonitrile	ND	0.005	107	110	2.8	95			70 - 130	30
Benzene	ND	0.001	100	105	4.9	98			70 - 130	30
Bromobenzene	ND	0.005	98	103	5.0	77			70 - 130	30
Bromochloromethane	ND	0.005	103	107	3.8	97			70 - 130	30
Bromodichloromethane	ND	0.005	99	104	4.9	93			70 - 130	30
Bromoform	ND	0.005	100	103	3.0	81			70 - 130	30
Bromomethane	ND	0.005	94	101	7.2	99			70 - 130	30
Carbon Disulfide	ND	0.005	99	104	4.9	93			70 - 130	30
Carbon tetrachloride	ND	0.005	92	99	7.3	87			70 - 130	30
Chlorobenzene	ND	0.005	97	102	5.0	83			70 - 130	30
Chloroethane	ND	0.005	99	108	8.7	103			70 - 130	30
Chloroform	ND	0.005	102	109	6.6	98			70 - 130	30
Chloromethane	ND	0.005	96	103	7.0	100			70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	102	109	6.6	99			70 - 130	30

## QA/QC Data

SDG I.D.: GCK09786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,3-Dichloropropene	ND	0.005	104	108	3.8	94			70 - 130	30
Dibromochloromethane	ND	0.003	98	102	4.0	88			70 - 130	30
Dibromomethane	ND	0.005	100	106	5.8	92			70 - 130	30
Dichlorodifluoromethane	ND	0.005	97	104	7.0	108			70 - 130	30
Ethylbenzene	ND	0.001	99	103	4.0	84			70 - 130	30
Hexachlorobutadiene	ND	0.005	99	103	4.0	49			70 - 130	30 m
Isopropylbenzene	ND	0.001	102	106	3.8	83			70 - 130	30
m&p-Xylene	ND	0.002	100	105	4.9	82			70 - 130	30
Methyl ethyl ketone	ND	0.005	107	114	6.3	97			70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	101	107	5.8	100			70 - 130	30
Methylene chloride	ND	0.005	93	99	6.3	90			70 - 130	30
Naphthalene	ND	0.005	103	107	3.8	15			70 - 130	30 m
n-Butylbenzene	ND	0.001	105	110	4.7	61			70 - 130	30 m
n-Propylbenzene	ND	0.001	101	106	4.8	75			70 - 130	30
o-Xylene	ND	0.002	98	102	4.0	81			70 - 130	30
p-Isopropyltoluene	ND	0.001	103	107	3.8	71			70 - 130	30
sec-Butylbenzene	ND	0.001	103	107	3.8	70			70 - 130	30
Styrene	ND	0.005	103	108	4.7	75			70 - 130	30
tert-Butylbenzene	ND	0.001	101	107	5.8	77			70 - 130	30
Tetrachloroethene	ND	0.005	97	102	5.0	82			70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	107	109	1.9	101			70 - 130	30
Toluene	ND	0.001	97	103	6.0	90			70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	101	107	5.8	96			70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	106	112	5.5	90			70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	111	114	2.7	91			70 - 130	30
Trichloroethene	ND	0.005	98	103	5.0	95			70 - 130	30
Trichlorofluoromethane	ND	0.005	101	108	6.7	98			70 - 130	30
Trichlorotrifluoroethane	ND	0.005	92	97	5.3	89			70 - 130	30
Vinyl chloride	ND	0.005	105	113	7.3	110			70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	101	101	0.0	99			70 - 130	30
% Bromofluorobenzene	95	%	101	100	1.0	99			70 - 130	30
% Dibromofluoromethane	101	%	100	100	0.0	99			70 - 130	30
% Toluene-d8	98	%	99	100	1.0	100			70 - 130	30

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 607383H (mg/Kg), QC Sample No: CK10069 50X (CK09786 (50X) )

### Volatiles - Soil (High Level)

Tetrachloroethene	ND	0.25	105	111	5.6	106	107	0.9	70 - 130	30
Trichloroethene	ND	0.25	104	108	3.8	110	108	1.8	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0	103	101	2.0	70 - 130	30
% Bromofluorobenzene	98	%	101	100	1.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	103	%	104	102	1.9	104	104	0.0	70 - 130	30
% Toluene-d8	99	%	99	100	1.0	101	99	2.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

# QA/QC Data

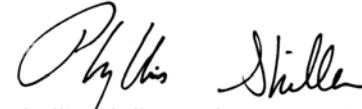
SDG I.D.: GCK09786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
January 07, 2022

Friday, January 07, 2022

Criteria: RI: GB LEACH, RC

State: RI

## Sample Criteria Exceedances Report

GCK09786 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

January 07, 2022

SDG I.D.: GCK09786

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: Yes [X] No [ ]
IPK [X] ICE [ ]

Temp 24 °C Pg of

Data Delivery/Contact Options:

Fax:
Phone:
Email:

Customer: SAGE Environmental, Inc.
Address: 172 Acmistice Blvd, Pawtucket RI

Project: S3977
Report to: SAGE@sage-enviro.com
Invoice to:
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature Date:

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X= (Other)

Analysis Request

PHOENIX USE ONLY
SAMPLE # Customer Sample Identification Sample Matrix Date Sampled Time Sampled

Table with 5 columns: SAMPLE #, Customer Sample Identification, Sample Matrix, Date Sampled, Time Sampled. Contains entries for samples 09786 and 09787.

Large grid for analysis request with various chemical and biological parameters like MS/MSD, H2O, HCL, H2SO4, Bacteria, etc.

Relinquished by: [Signature]

Accepted by: [Signature]

Date: 7/5/22 9:40
1/5 1248

- RI (Residential) Direct Exposure
(Comm/Industrial) Direct Exposure
GA Leachability
GB Leachability
GA-GW Objectives
GB-GW Objectives

- CT RCP Cert
GW Protection
SW Protection
GA Mobility
GB Mobility
Residential DEC
I/C DEC
Other

- MA MCP Certification
GW-1 MWRA eSMART
GW-2 S-1 10% CALC
GW-3
S-1 GW-1 S-1 GW-2 S-1 GW-3
S-2 GW-1 S-2 GW-2 S-2 GW-3
S-3 GW-1 S-3 GW-2 S-3 GW-3
SW Protection

- Data Format
Excel
PDF
GIS/Key
EQUIS
Other
Data Package
Tier II Checklist
Full Data Package\*
Phoenix Std Report
Other

Comments, Special Requirements or Regulations:
Meet RT Residential Direct Exposure detection limits

Turnaround Time:
1 Day\*
2 Days\*
3 Days\*
Standard
Other
SURCHARGE APPLIES

State where samples were collected: RI

\* SURCHARGE APPLIES

\*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

## APPENDIX G



New England Testing Laboratory, Inc.  
(401) 353-3420

## REPORT OF ANALYTICAL RESULTS

**NETLAB Work Order Number: 1K23025**  
**Client Project: S3977 - 1144 Eddy St, Providence, RI**

Report Date: 01-December-2021

Prepared for:

Cathy Racine  
SAGE Environmental  
172 Armistice Blvd  
Pawtucket, RI 02860

---

Richard Warila, Laboratory Director  
New England Testing Laboratory, Inc.  
59 Greenhill Street  
West Warwick, RI 02893  
rich.warila@newenglandtesting.com



**Samples Submitted :**

The samples listed below were submitted to New England Testing Laboratory on 11/23/21. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 1K23025. Custody records are included in this report.

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
1K23025-01	SE-101 (MW)	Water	11/22/2021	11/23/2021
1K23025-02	SE-102 (MW)	Water	11/22/2021	11/23/2021
1K23025-03	SE-105 (MW)	Water	11/22/2021	11/23/2021

## ***Request for Analysis***

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### **SE-101 (MW) (Lab Number: 1K23025-01)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-102 (MW) (Lab Number: 1K23025-02)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-105 (MW) (Lab Number: 1K23025-03)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

## ***Method References***

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA*

## Case Narrative

### Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

### Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

## Results: Volatile Organic Compounds

**Sample: SE-101 (MW)**

**Lab Number: 1K23025-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Chloroform</b>	<b>2</b>		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
<b>1,1-Dichloroethene</b>	<b>6</b>		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-101 (MW) (Continued)**

**Lab Number: 1K23025-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
Tetrachloroethene	ND		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Trichloroethene</b>	<b>9</b>		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
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Surrogate(s)	Recovery%		Limits			
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4-Bromofluorobenzene	94.4%		70-130		11/24/21	11/24/21
1,2-Dichloroethane-d4	99.0%		70-130		11/24/21	11/24/21
Toluene-d8	102%		70-130		11/24/21	11/24/21

## Results: Volatile Organic Compounds

**Sample: SE-102 (MW)**

**Lab Number: 1K23025-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
Chloroform	ND		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-102 (MW) (Continued)**

**Lab Number: 1K23025-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Tetrachloroethene</b>	<b>1</b>		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
Trichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
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Surrogate(s)	Recovery%		Limits			
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4-Bromofluorobenzene	94.8%		70-130		11/24/21	11/24/21
1,2-Dichloroethane-d4	98.0%		70-130		11/24/21	11/24/21
Toluene-d8	102%		70-130		11/24/21	11/24/21

**Results: Volatile Organic Compounds****Sample: SE-105 (MW)****Lab Number: 1K23025-03 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	11/24/21	11/24/21
Benzene	ND		1	ug/l	11/24/21	11/24/21
Bromobenzene	ND		1	ug/l	11/24/21	11/24/21
Bromochloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromodichloromethane	ND		1	ug/l	11/24/21	11/24/21
Bromoform	ND		1	ug/l	11/24/21	11/24/21
Bromomethane	ND		1	ug/l	11/24/21	11/24/21
2-Butanone	ND		5	ug/l	11/24/21	11/24/21
tert-Butyl alcohol	ND		5	ug/l	11/24/21	11/24/21
sec-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
n-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
tert-Butylbenzene	ND		1	ug/l	11/24/21	11/24/21
Methyl t-butyl ether (MTBE)	ND		1	ug/l	11/24/21	11/24/21
Carbon Disulfide	ND		1	ug/l	11/24/21	11/24/21
Carbon Tetrachloride	ND		1	ug/l	11/24/21	11/24/21
Chlorobenzene	ND		1	ug/l	11/24/21	11/24/21
Chloroethane	ND		1	ug/l	11/24/21	11/24/21
Chloroform	ND		1	ug/l	11/24/21	11/24/21
Chloromethane	ND		1	ug/l	11/24/21	11/24/21
4-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
2-Chlorotoluene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	11/24/21	11/24/21
Dibromochloromethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dibromoethane (EDB)	ND		1	ug/l	11/24/21	11/24/21
Dibromomethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,4-Dichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloroethane	ND		1	ug/l	11/24/21	11/24/21
trans-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
cis-1,2-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloroethene	ND		1	ug/l	11/24/21	11/24/21
1,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
2,2-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
cis-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
trans-1,3-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,1-Dichloropropene	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	11/24/21	11/24/21
Diethyl ether	ND		5	ug/l	11/24/21	11/24/21
1,4-Dioxane	ND		500	ug/l	11/24/21	11/24/21
Ethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Hexachlorobutadiene	ND		1	ug/l	11/24/21	11/24/21
2-Hexanone	ND		5	ug/l	11/24/21	11/24/21
Isopropylbenzene	ND		1	ug/l	11/24/21	11/24/21
p-Isopropyltoluene	ND		1	ug/l	11/24/21	11/24/21
Methylene Chloride	ND		1	ug/l	11/24/21	11/24/21
4-Methyl-2-pentanone	ND		5	ug/l	11/24/21	11/24/21



## Results: Volatile Organic Compounds (Continued)

**Sample: SE-105 (MW) (Continued)**

**Lab Number: 1K23025-03 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	11/24/21	11/24/21
n-Propylbenzene	ND		1	ug/l	11/24/21	11/24/21
Styrene	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
Tetrachloroethene	ND		1	ug/l	11/24/21	11/24/21
Tetrahydrofuran	ND		5	ug/l	11/24/21	11/24/21
Toluene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,3-Trichlorobenzene	ND		1	ug/l	11/24/21	11/24/21
1,1,2-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
1,1,1-Trichloroethane	ND		1	ug/l	11/24/21	11/24/21
<b>Trichloroethene</b>	<b>4</b>		1	ug/l	11/24/21	11/24/21
1,2,3-Trichloropropane	ND		1	ug/l	11/24/21	11/24/21
1,3,5-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
1,2,4-Trimethylbenzene	ND		1	ug/l	11/24/21	11/24/21
Vinyl Chloride	ND		1	ug/l	11/24/21	11/24/21
o-Xylene	ND		1	ug/l	11/24/21	11/24/21
m&p-Xylene	ND		2	ug/l	11/24/21	11/24/21
Total xylenes	ND		1	ug/l	11/24/21	11/24/21
1,1,1,2-Tetrachloroethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl methyl ether	ND		1	ug/l	11/24/21	11/24/21
1,3-Dichloropropane	ND		1	ug/l	11/24/21	11/24/21
Ethyl tert-butyl ether	ND		1	ug/l	11/24/21	11/24/21
Diisopropyl ether	ND		1	ug/l	11/24/21	11/24/21
Trichlorofluoromethane	ND		1	ug/l	11/24/21	11/24/21
Dichlorodifluoromethane	ND		1	ug/l	11/24/21	11/24/21
tert-Amyl Alcohol	ND		5	ug/l	11/24/21	11/24/21
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Surrogate(s)	Recovery%		Limits			
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<i>4-Bromofluorobenzene</i>	<i>91.4%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>1,2-Dichloroethane-d4</i>	<i>98.9%</i>		<i>70-130</i>		11/24/21	11/24/21
<i>Toluene-d8</i>	<i>101%</i>		<i>70-130</i>		11/24/21	11/24/21

## Quality Control

### Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap</b>										
<b>Blank (B1K1217-BLK1)</b>					Prepared & Analyzed: 11/24/21					
Acetone	ND		5	ug/l						
Benzene	ND		1	ug/l						
Bromobenzene	ND		1	ug/l						
Bromochloromethane	ND		1	ug/l						
Bromodichloromethane	ND		1	ug/l						
Bromoform	ND		1	ug/l						
Bromomethane	ND		1	ug/l						
2-Butanone	ND		5	ug/l						
tert-Butyl alcohol	ND		5	ug/l						
sec-Butylbenzene	ND		1	ug/l						
n-Butylbenzene	ND		1	ug/l						
tert-Butylbenzene	ND		1	ug/l						
Methyl t-butyl ether (MTBE)	ND		1	ug/l						
Carbon Disulfide	ND		1	ug/l						
Carbon Tetrachloride	ND		1	ug/l						
Chlorobenzene	ND		1	ug/l						
Chloroethane	ND		1	ug/l						
Chloroform	ND		1	ug/l						
Chloromethane	ND		1	ug/l						
4-Chlorotoluene	ND		1	ug/l						
2-Chlorotoluene	ND		1	ug/l						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l						
Dibromochloromethane	ND		1	ug/l						
1,2-Dibromoethane (EDB)	ND		1	ug/l						
Dibromomethane	ND		1	ug/l						
1,2-Dichlorobenzene	ND		1	ug/l						
1,3-Dichlorobenzene	ND		1	ug/l						
1,4-Dichlorobenzene	ND		1	ug/l						
1,1-Dichloroethane	ND		1	ug/l						
1,2-Dichloroethane	ND		1	ug/l						
trans-1,2-Dichloroethene	ND		1	ug/l						
cis-1,2-Dichloroethene	ND		1	ug/l						
1,1-Dichloroethene	ND		1	ug/l						
1,2-Dichloropropane	ND		1	ug/l						
2,2-Dichloropropane	ND		1	ug/l						
cis-1,3-Dichloropropene	ND		1	ug/l						
trans-1,3-Dichloropropene	ND		1	ug/l						
1,1-Dichloropropene	ND		1	ug/l						
1,3-Dichloropropene (cis + trans)	ND		2	ug/l						
Diethyl ether	ND		5	ug/l						
1,4-Dioxane	ND		500	ug/l						
Ethylbenzene	ND		1	ug/l						
Hexachlorobutadiene	ND		1	ug/l						
2-Hexanone	ND		5	ug/l						
Isopropylbenzene	ND		1	ug/l						
p-Isopropyltoluene	ND		1	ug/l						
Methylene Chloride	ND		1	ug/l						
4-Methyl-2-pentanone	ND		5	ug/l						
Naphthalene	ND		1	ug/l						
n-Propylbenzene	ND		1	ug/l						
Styrene	ND		1	ug/l						
1,1,1,2-Tetrachloroethane	ND		1	ug/l						
Tetrachloroethene	ND		1	ug/l						
Tetrahydrofuran	ND		5	ug/l						

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>										
<b>Blank (B1K1217-BLK1)</b>					Prepared & Analyzed: 11/24/21					
Toluene	ND		1	ug/l						
1,2,4-Trichlorobenzene	ND		1	ug/l						
1,2,3-Trichlorobenzene	ND		1	ug/l						
1,1,2-Trichloroethane	ND		1	ug/l						
1,1,1-Trichloroethane	ND		1	ug/l						
Trichloroethene	ND		1	ug/l						
1,2,3-Trichloropropane	ND		1	ug/l						
1,3,5-Trimethylbenzene	ND		1	ug/l						
1,2,4-Trimethylbenzene	ND		1	ug/l						
Vinyl Chloride	ND		1	ug/l						
o-Xylene	ND		1	ug/l						
m&p-Xylene	ND		2	ug/l						
Total xylenes	ND		1	ug/l						
1,1,2,2-Tetrachloroethane	ND		1	ug/l						
tert-Amyl methyl ether	ND		1	ug/l						
1,3-Dichloropropane	ND		1	ug/l						
Ethyl tert-butyl ether	ND		1	ug/l						
Diisopropyl ether	ND		1	ug/l						
Trichlorofluoromethane	ND		1	ug/l						
Dichlorodifluoromethane	ND		1	ug/l						
tert-Amyl Alcohol	ND		5	ug/l						
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>45.4</i>	<i>ug/l</i>	<i>50.0</i>		<i>90.8</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>47.1</i>	<i>ug/l</i>	<i>50.0</i>		<i>94.2</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>50.6</i>	<i>ug/l</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<b>LCS (B1K1217-BS1)</b>					Prepared & Analyzed: 11/24/21					
Acetone	39			ug/l	50.0		77.2	60-140		
Benzene	51			ug/l	50.0		102	70-130		
Bromobenzene	52			ug/l	50.0		104	70-130		
Bromochloromethane	56			ug/l	50.0		112	70-130		
Bromodichloromethane	54			ug/l	50.0		108	70-130		
Bromoform	58			ug/l	50.0		115	70-130		
Bromomethane	65			ug/l	50.0		130	70-130		
2-Butanone	42			ug/l	50.0		84.4	60-140		
tert-Butyl alcohol	42			ug/l	50.0		83.9	70-130		
sec-Butylbenzene	50			ug/l	50.0		100	70-130		
n-Butylbenzene	50			ug/l	50.0		100	70-130		
tert-Butylbenzene	58			ug/l	50.0		116	70-130		
Methyl t-butyl ether (MTBE)	47			ug/l	50.0		94.4	70-130		
Carbon Disulfide	17			ug/l	50.0		34.1	50-150		
Carbon Tetrachloride	51			ug/l	50.0		102	70-130		
Chlorobenzene	55			ug/l	50.0		110	70-130		
Chloroethane	56			ug/l	50.0		113	70-130		
Chloroform	46			ug/l	50.0		92.8	70-130		
Chloromethane	60			ug/l	50.0		120	70-130		
4-Chlorotoluene	52			ug/l	50.0		105	70-130		
2-Chlorotoluene	52			ug/l	50.0		104	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	44			ug/l	50.0		87.9	70-130		
Dibromochloromethane	55			ug/l	50.0		110	70-130		
1,2-Dibromoethane (EDB)	56			ug/l	50.0		111	70-130		
Dibromomethane	55			ug/l	50.0		111	70-130		
1,2-Dichlorobenzene	51			ug/l	50.0		103	70-130		
1,3-Dichlorobenzene	54			ug/l	50.0		108	70-130		
1,4-Dichlorobenzene	51			ug/l	50.0		102	70-130		
1,1-Dichloroethane	43			ug/l	50.0		85.7	70-130		
1,2-Dichloroethane	47			ug/l	50.0		93.3	70-130		
trans-1,2-Dichloroethene	47			ug/l	50.0		93.6	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>					Prepared & Analyzed: 11/24/21					
<b>LCS (B1K1217-BS1)</b>										
cis-1,2-Dichloroethene	48			ug/l	50.0		95.1	70-130		
1,1-Dichloroethene	51			ug/l	50.0		103	70-130		
1,2-Dichloropropane	51			ug/l	50.0		103	70-130		
2,2-Dichloropropane	48			ug/l	50.0		97.0	70-130		
cis-1,3-Dichloropropene	53			ug/l	50.0		106	70-130		
trans-1,3-Dichloropropene	53			ug/l	50.0		107	70-130		
1,1-Dichloropropene	55			ug/l	50.0		109	70-130		
Diethyl ether	38			ug/l	50.0		76.7	70-130		
1,4-Dioxane	274			ug/l	250		109	50-150		
Ethylbenzene	51			ug/l	50.0		102	70-130		
Hexachlorobutadiene	46			ug/l	50.0		91.2	70-130		
2-Hexanone	50			ug/l	50.0		99.7	70-130		
Isopropylbenzene	56			ug/l	50.0		112	70-130		
p-Isopropyltoluene	56			ug/l	50.0		113	70-130		
Methylene Chloride	52			ug/l	50.0		105	70-130		
4-Methyl-2-pentanone	52			ug/l	50.0		104	70-130		
Naphthalene	38			ug/l	50.0		75.8	70-130		
n-Propylbenzene	54			ug/l	50.0		108	70-130		
Styrene	55			ug/l	50.0		110	70-130		
1,1,1,2-Tetrachloroethane	52			ug/l	50.0		105	70-130		
Tetrachloroethene	55			ug/l	50.0		110	70-130		
Tetrahydrofuran	52			ug/l	50.0		105	50-150		
Toluene	49			ug/l	50.0		97.6	70-130		
1,2,4-Trichlorobenzene	46			ug/l	50.0		92.6	70-130		
1,2,3-Trichlorobenzene	36			ug/l	50.0		72.6	70-130		
1,1,2-Trichloroethane	53			ug/l	50.0		106	70-130		
1,1,1-Trichloroethane	50			ug/l	50.0		100	70-130		
Trichloroethene	47			ug/l	50.0		94.7	70-130		
1,2,3-Trichloropropane	47			ug/l	50.0		94.8	70-130		
1,3,5-Trimethylbenzene	53			ug/l	50.0		106	70-130		
1,2,4-Trimethylbenzene	54			ug/l	50.0		107	70-130		
Vinyl Chloride	65			ug/l	50.0		129	70-130		
o-Xylene	55			ug/l	50.0		110	70-130		
m&p-Xylene	110			ug/l	100		110	70-130		
1,1,2,2-Tetrachloroethane	48			ug/l	50.0		96.9	70-130		
tert-Amyl methyl ether	59			ug/l	50.0		118	70-130		
1,3-Dichloropropane	52			ug/l	50.0		104	70-130		
Ethyl tert-butyl ether	50			ug/l	50.0		100	70-130		
Trichlorofluoromethane	64			ug/l	50.0		128	70-130		
Dichlorodifluoromethane	87			ug/l	50.0		174	70-130		
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Surrogate: 4-Bromofluorobenzene			49.5	ug/l	50.0		99.1	70-130		
Surrogate: 1,2-Dichloroethane-d4			49.8	ug/l	50.0		99.6	70-130		
Surrogate: Toluene-d8			50.2	ug/l	50.0		100	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>					Prepared & Analyzed: 11/24/21					
<b>LCS Dup (B1K1217-BSD1)</b>										
Acetone	36			ug/l	50.0		71.2	60-140	8.08	20
Benzene	47			ug/l	50.0		94.9	70-130	7.52	20
Bromobenzene	51			ug/l	50.0		102	70-130	1.15	20
Bromochloromethane	50			ug/l	50.0		99.7	70-130	11.7	20
Bromodichloromethane	50			ug/l	50.0		100	70-130	7.09	20
Bromoform	58			ug/l	50.0		116	70-130	0.691	20
Bromomethane	71			ug/l	50.0		142	70-130	9.01	20
2-Butanone	40			ug/l	50.0		80.4	60-140	4.93	20
tert-Butyl alcohol	36			ug/l	50.0		71.7	70-130	15.7	20
sec-Butylbenzene	48			ug/l	50.0		96.9	70-130	3.21	20
n-Butylbenzene	50			ug/l	50.0		99.6	70-130	0.601	20
tert-Butylbenzene	55			ug/l	50.0		110	70-130	5.17	20
Methyl t-butyl ether (MTBE)	47			ug/l	50.0		93.0	70-130	1.45	20
Carbon Disulfide	16			ug/l	50.0		31.1	50-150	9.33	20
Carbon Tetrachloride	48			ug/l	50.0		96.5	70-130	5.95	20
Chlorobenzene	55			ug/l	50.0		110	70-130	0.509	20
Chloroethane	51			ug/l	50.0		102	70-130	10.1	20
Chloroform	46			ug/l	50.0		91.0	70-130	2.00	20
Chloromethane	55			ug/l	50.0		110	70-130	8.90	20
4-Chlorotoluene	51			ug/l	50.0		102	70-130	2.95	20
2-Chlorotoluene	49			ug/l	50.0		98.3	70-130	6.06	20
1,2-Dibromo-3-chloropropane (DBCP)	47			ug/l	50.0		94.0	70-130	6.79	20
Dibromochloromethane	56			ug/l	50.0		111	70-130	0.958	20
1,2-Dibromoethane (EDB)	54			ug/l	50.0		108	70-130	2.66	20
Dibromomethane	52			ug/l	50.0		104	70-130	5.80	20
1,2-Dichlorobenzene	52			ug/l	50.0		104	70-130	1.03	20
1,3-Dichlorobenzene	53			ug/l	50.0		105	70-130	2.79	20
1,4-Dichlorobenzene	50			ug/l	50.0		101	70-130	1.03	20
1,1-Dichloroethane	41			ug/l	50.0		81.3	70-130	5.34	20
1,2-Dichloroethane	45			ug/l	50.0		89.5	70-130	4.18	20
trans-1,2-Dichloroethene	44			ug/l	50.0		88.6	70-130	5.51	20
cis-1,2-Dichloroethene	47			ug/l	50.0		94.6	70-130	0.506	20
1,1-Dichloroethene	49			ug/l	50.0		97.9	70-130	4.83	20
1,2-Dichloropropane	49			ug/l	50.0		98.4	70-130	4.20	20
2,2-Dichloropropane	46			ug/l	50.0		91.4	70-130	5.92	20
cis-1,3-Dichloropropene	50			ug/l	50.0		100	70-130	5.20	20
trans-1,3-Dichloropropene	53			ug/l	50.0		107	70-130	0.0561	20
1,1-Dichloropropene	52			ug/l	50.0		103	70-130	5.33	20
Diethyl ether	42			ug/l	50.0		83.4	70-130	8.27	20
1,4-Dioxane	278			ug/l	250		111	50-150	1.40	20
Ethylbenzene	50			ug/l	50.0		99.2	70-130	2.43	20
Hexachlorobutadiene	46			ug/l	50.0		92.0	70-130	0.874	20
2-Hexanone	46			ug/l	50.0		91.9	70-130	8.10	20
Isopropylbenzene	54			ug/l	50.0		108	70-130	3.23	20
p-Isopropyltoluene	55			ug/l	50.0		110	70-130	2.55	20
Methylene Chloride	49			ug/l	50.0		97.3	70-130	7.21	20
4-Methyl-2-pentanone	51			ug/l	50.0		102	70-130	2.64	20
Naphthalene	41			ug/l	50.0		81.9	70-130	7.78	20
n-Propylbenzene	52			ug/l	50.0		103	70-130	4.43	20
Styrene	53			ug/l	50.0		106	70-130	3.24	20
1,1,1,2-Tetrachloroethane	54			ug/l	50.0		109	70-130	3.96	20
Tetrachloroethene	53			ug/l	50.0		107	70-130	2.89	20
Tetrahydrofuran	51			ug/l	50.0		103	50-150	1.64	20
Toluene	46			ug/l	50.0		92.1	70-130	5.76	20
1,2,4-Trichlorobenzene	48			ug/l	50.0		96.5	70-130	4.06	20
1,2,3-Trichlorobenzene	37			ug/l	50.0		74.2	70-130	2.15	20
1,1,2-Trichloroethane	50			ug/l	50.0		99.6	70-130	6.38	20

**Quality Control  
(Continued)**

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B1K1217 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B1K1217-BSD1)</b>					Prepared & Analyzed: 11/24/21					
1,1,1-Trichloroethane	49			ug/l	50.0		98.5	70-130	1.73	20
Trichloroethene	47			ug/l	50.0		93.6	70-130	1.21	20
1,2,3-Trichloropropane	48			ug/l	50.0		97.0	70-130	2.25	20
1,3,5-Trimethylbenzene	53			ug/l	50.0		105	70-130	0.643	20
1,2,4-Trimethylbenzene	52			ug/l	50.0		105	70-130	2.43	20
Vinyl Chloride	60			ug/l	50.0		121	70-130	6.73	20
o-Xylene	54			ug/l	50.0		109	70-130	1.42	20
m&p-Xylene	107			ug/l	100		107	70-130	2.52	20
1,1,2,2-Tetrachloroethane	48			ug/l	50.0		96.3	70-130	0.621	20
tert-Amyl methyl ether	58			ug/l	50.0		116	70-130	1.81	20
1,3-Dichloropropane	50			ug/l	50.0		100	70-130	3.35	20
Ethyl tert-butyl ether	46			ug/l	50.0		91.3	70-130	9.22	20
Trichlorofluoromethane	60			ug/l	50.0		120	70-130	6.53	20
Dichlorodifluoromethane	78			ug/l	50.0		157	70-130	10.6	20
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Surrogate: 4-Bromofluorobenzene			47.6	ug/l	50.0		95.2	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.9	ug/l	50.0		108	70-130		
Surrogate: Toluene-d8			48.1	ug/l	50.0		96.3	70-130		

## Notes and Definitions

<b>Item</b>	<b>Definition</b>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

NEW ENGLAND TESTING LABORATORY, INC.  
 59 Greenhill Street  
 West Warwick, RI 02893  
 1-888-863-8522



1 K 2 3025 >

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		A S O C I E T Y	S O I L	O T H E R	NO. OF CONTAINERS	PRESERVATIVE	TESTS**				REMARKS
CLIENT		REPORT TO	INVOICE TO						VOC's				
DATE	TIME	COM P	GRAB	SAMPLE I.D.									
53977	1144 Eddy St, Providence RI												
SAGE Environmental		SAGE @ sage-enviro.com	SAGE										
11/22	14:58		X	SE-101 (MW)	X		3***	HCl	X				
	15:05			SE-102 (MW)	↓		↓***	↓	↓				
	15:10		↓	SE-105 (MW)	↓		↓***	↓	↓				
Sampled by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Laboratory Remarks:		Special Instructions: List Specific Detection Limit Requirements:  Turnaround (Business Days)					
Michael V Podany		16:25   11/22/21				Temp. received: 4 Cooled <input checked="" type="checkbox"/>							
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time								
Catherine Reina		11/23/21 11:11	[Signature]		11/23   1111								
Relinquished by: (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time								
[Signature]		11/23   1530	[Signature]		11/23   1530								

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

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New England Testing Laboratory, Inc.  
(401) 353-3420

## REPORT OF ANALYTICAL RESULTS

**NETLAB Work Order Number: 2A10079**  
**Client Project: S3977 - 1144 Eddy St, Providence, RI**

Report Date: 12-January-2022

Prepared for:

Cathy Racine  
SAGE Environmental  
172 Armistice Blvd  
Pawtucket, RI 02860

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Richard Warila, Laboratory Director  
New England Testing Laboratory, Inc.  
59 Greenhill Street  
West Warwick, RI 02893  
rich.warila@newenglandtesting.com

### ***Samples Submitted :***

The samples listed below were submitted to New England Testing Laboratory on 01/10/22. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 2A10079. Custody records are included in this report.

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
2A10079-01	SE-301 (MW)	Water	01/10/2022	01/10/2022
2A10079-02	SE-302 (MW)	Water	01/10/2022	01/10/2022

## ***Request for Analysis***

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### **SE-301 (MW) (Lab Number: 2A10079-01)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

### **SE-302 (MW) (Lab Number: 2A10079-02)**

**Analysis**

Volatile Organic Compounds

**Method**

EPA 8260C

## ***Method References***

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA*

## Case Narrative

### Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

### Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

## Results: Volatile Organic Compounds

**Sample: SE-301 (MW)**

**Lab Number: 2A10079-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	01/10/22	01/11/22
Benzene	ND		1	ug/l	01/10/22	01/11/22
Bromobenzene	ND		1	ug/l	01/10/22	01/11/22
Bromochloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromodichloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromoform	ND		1	ug/l	01/10/22	01/11/22
Bromomethane	ND		1	ug/l	01/10/22	01/11/22
2-Butanone	ND		5	ug/l	01/10/22	01/11/22
tert-Butyl alcohol	ND		5	ug/l	01/10/22	01/11/22
sec-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
n-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
tert-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
Methyl t-butyl ether (MTBE)	ND		1	ug/l	01/10/22	01/11/22
Carbon Disulfide	ND		1	ug/l	01/10/22	01/11/22
Carbon Tetrachloride	ND		1	ug/l	01/10/22	01/11/22
Chlorobenzene	ND		1	ug/l	01/10/22	01/11/22
Chloroethane	ND		1	ug/l	01/10/22	01/11/22
Chloroform	ND		1	ug/l	01/10/22	01/11/22
Chloromethane	ND		1	ug/l	01/10/22	01/11/22
4-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
2-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	01/10/22	01/11/22
Dibromochloromethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromoethane (EDB)	ND		1	ug/l	01/10/22	01/11/22
Dibromomethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,4-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
trans-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
cis-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
2,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
cis-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
trans-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	01/10/22	01/11/22
Diethyl ether	ND		5	ug/l	01/10/22	01/11/22
1,4-Dioxane	ND		500	ug/l	01/10/22	01/11/22
Ethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Hexachlorobutadiene	ND		1	ug/l	01/10/22	01/11/22
2-Hexanone	ND		5	ug/l	01/10/22	01/11/22
Isopropylbenzene	ND		1	ug/l	01/10/22	01/11/22
p-Isopropyltoluene	ND		1	ug/l	01/10/22	01/11/22
Methylene Chloride	ND		1	ug/l	01/10/22	01/11/22
4-Methyl-2-pentanone	ND		5	ug/l	01/10/22	01/11/22

## Results: Volatile Organic Compounds (Continued)

**Sample: SE-301 (MW) (Continued)**

**Lab Number: 2A10079-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	01/10/22	01/11/22
n-Propylbenzene	ND		1	ug/l	01/10/22	01/11/22
Styrene	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
Tetrachloroethene	ND		1	ug/l	01/10/22	01/11/22
Tetrahydrofuran	ND		5	ug/l	01/10/22	01/11/22
Toluene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,3-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1,2-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,1,1-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
<b>Trichloroethene</b>	<b>12</b>		1	ug/l	01/10/22	01/11/22
1,2,3-Trichloropropane	ND		1	ug/l	01/10/22	01/11/22
1,3,5-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Vinyl Chloride	ND		1	ug/l	01/10/22	01/11/22
o-Xylene	ND		1	ug/l	01/10/22	01/11/22
m&p-Xylene	ND		2	ug/l	01/10/22	01/11/22
Total xylenes	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl methyl ether	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
Ethyl tert-butyl ether	ND		1	ug/l	01/10/22	01/11/22
Diisopropyl ether	ND		1	ug/l	01/10/22	01/11/22
Trichlorofluoromethane	ND		1	ug/l	01/10/22	01/11/22
Dichlorodifluoromethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl Alcohol	ND		5	ug/l	01/10/22	01/11/22
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Surrogate(s)	Recovery%		Limits			
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<i>4-Bromofluorobenzene</i>	<i>94.5%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>1,2-Dichloroethane-d4</i>	<i>103%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>Toluene-d8</i>	<i>97.8%</i>		<i>70-130</i>		01/10/22	01/11/22

## Results: Volatile Organic Compounds

**Sample: SE-302 (MW)**

**Lab Number: 2A10079-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5	ug/l	01/10/22	01/11/22
Benzene	ND		1	ug/l	01/10/22	01/11/22
Bromobenzene	ND		1	ug/l	01/10/22	01/11/22
Bromochloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromodichloromethane	ND		1	ug/l	01/10/22	01/11/22
Bromoform	ND		1	ug/l	01/10/22	01/11/22
Bromomethane	ND		1	ug/l	01/10/22	01/11/22
2-Butanone	ND		5	ug/l	01/10/22	01/11/22
tert-Butyl alcohol	ND		5	ug/l	01/10/22	01/11/22
sec-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
n-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
tert-Butylbenzene	ND		1	ug/l	01/10/22	01/11/22
Methyl t-butyl ether (MTBE)	ND		1	ug/l	01/10/22	01/11/22
Carbon Disulfide	ND		1	ug/l	01/10/22	01/11/22
Carbon Tetrachloride	ND		1	ug/l	01/10/22	01/11/22
Chlorobenzene	ND		1	ug/l	01/10/22	01/11/22
Chloroethane	ND		1	ug/l	01/10/22	01/11/22
Chloroform	ND		1	ug/l	01/10/22	01/11/22
Chloromethane	ND		1	ug/l	01/10/22	01/11/22
4-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
2-Chlorotoluene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l	01/10/22	01/11/22
Dibromochloromethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dibromoethane (EDB)	ND		1	ug/l	01/10/22	01/11/22
Dibromomethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,4-Dichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloroethane	ND		1	ug/l	01/10/22	01/11/22
trans-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
cis-1,2-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloroethene	ND		1	ug/l	01/10/22	01/11/22
1,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
2,2-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
cis-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
trans-1,3-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,1-Dichloropropene	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropene (cis + trans)	ND		2	ug/l	01/10/22	01/11/22
Diethyl ether	ND		5	ug/l	01/10/22	01/11/22
1,4-Dioxane	ND		500	ug/l	01/10/22	01/11/22
Ethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Hexachlorobutadiene	ND		1	ug/l	01/10/22	01/11/22
2-Hexanone	ND		5	ug/l	01/10/22	01/11/22
Isopropylbenzene	ND		1	ug/l	01/10/22	01/11/22
p-Isopropyltoluene	ND		1	ug/l	01/10/22	01/11/22
Methylene Chloride	ND		1	ug/l	01/10/22	01/11/22
4-Methyl-2-pentanone	ND		5	ug/l	01/10/22	01/11/22



## Results: Volatile Organic Compounds (Continued)

**Sample: SE-302 (MW) (Continued)**

**Lab Number: 2A10079-02 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Naphthalene	ND		1	ug/l	01/10/22	01/11/22
n-Propylbenzene	ND		1	ug/l	01/10/22	01/11/22
Styrene	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
Tetrachloroethene	ND		1	ug/l	01/10/22	01/11/22
Tetrahydrofuran	ND		5	ug/l	01/10/22	01/11/22
Toluene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,3-Trichlorobenzene	ND		1	ug/l	01/10/22	01/11/22
1,1,2-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
1,1,1-Trichloroethane	ND		1	ug/l	01/10/22	01/11/22
<b>Trichloroethene</b>	<b>3</b>		1	ug/l	01/10/22	01/11/22
1,2,3-Trichloropropane	ND		1	ug/l	01/10/22	01/11/22
1,3,5-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
1,2,4-Trimethylbenzene	ND		1	ug/l	01/10/22	01/11/22
Vinyl Chloride	ND		1	ug/l	01/10/22	01/11/22
o-Xylene	ND		1	ug/l	01/10/22	01/11/22
m&p-Xylene	ND		2	ug/l	01/10/22	01/11/22
Total xylenes	ND		1	ug/l	01/10/22	01/11/22
1,1,1,2-Tetrachloroethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl methyl ether	ND		1	ug/l	01/10/22	01/11/22
1,3-Dichloropropane	ND		1	ug/l	01/10/22	01/11/22
Ethyl tert-butyl ether	ND		1	ug/l	01/10/22	01/11/22
Diisopropyl ether	ND		1	ug/l	01/10/22	01/11/22
Trichlorofluoromethane	ND		1	ug/l	01/10/22	01/11/22
Dichlorodifluoromethane	ND		1	ug/l	01/10/22	01/11/22
tert-Amyl Alcohol	ND		5	ug/l	01/10/22	01/11/22
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Surrogate(s)	Recovery%		Limits			
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<i>4-Bromofluorobenzene</i>	<i>96.0%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>1,2-Dichloroethane-d4</i>	<i>102%</i>		<i>70-130</i>		01/10/22	01/11/22
<i>Toluene-d8</i>	<i>96.2%</i>		<i>70-130</i>		01/10/22	01/11/22

## Quality Control

### Volatile Organic Compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap</b>										
<b>Blank (B2A0425-BLK1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	ND		5	ug/l						
Benzene	ND		1	ug/l						
Bromobenzene	ND		1	ug/l						
Bromochloromethane	ND		1	ug/l						
Bromodichloromethane	ND		1	ug/l						
Bromoform	ND		1	ug/l						
Bromomethane	ND		1	ug/l						
2-Butanone	ND		5	ug/l						
tert-Butyl alcohol	ND		5	ug/l						
sec-Butylbenzene	ND		1	ug/l						
n-Butylbenzene	ND		1	ug/l						
tert-Butylbenzene	ND		1	ug/l						
Methyl t-butyl ether (MTBE)	ND		1	ug/l						
Carbon Disulfide	ND		1	ug/l						
Carbon Tetrachloride	ND		1	ug/l						
Chlorobenzene	ND		1	ug/l						
Chloroethane	ND		1	ug/l						
Chloroform	ND		1	ug/l						
Chloromethane	ND		1	ug/l						
4-Chlorotoluene	ND		1	ug/l						
2-Chlorotoluene	ND		1	ug/l						
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/l						
Dibromochloromethane	ND		1	ug/l						
1,2-Dibromoethane (EDB)	ND		1	ug/l						
Dibromomethane	ND		1	ug/l						
1,2-Dichlorobenzene	ND		1	ug/l						
1,3-Dichlorobenzene	ND		1	ug/l						
1,4-Dichlorobenzene	ND		1	ug/l						
1,1-Dichloroethane	ND		1	ug/l						
1,2-Dichloroethane	ND		1	ug/l						
trans-1,2-Dichloroethene	ND		1	ug/l						
cis-1,2-Dichloroethene	ND		1	ug/l						
1,1-Dichloroethene	ND		1	ug/l						
1,2-Dichloropropane	ND		1	ug/l						
2,2-Dichloropropane	ND		1	ug/l						
cis-1,3-Dichloropropene	ND		1	ug/l						
trans-1,3-Dichloropropene	ND		1	ug/l						
1,1-Dichloropropene	ND		1	ug/l						
1,3-Dichloropropene (cis + trans)	ND		2	ug/l						
Diethyl ether	ND		5	ug/l						
1,4-Dioxane	ND		500	ug/l						
Ethylbenzene	ND		1	ug/l						
Hexachlorobutadiene	ND		1	ug/l						
2-Hexanone	ND		5	ug/l						
Isopropylbenzene	ND		1	ug/l						
p-Isopropyltoluene	ND		1	ug/l						
Methylene Chloride	ND		1	ug/l						
4-Methyl-2-pentanone	ND		5	ug/l						
Naphthalene	ND		1	ug/l						
n-Propylbenzene	ND		1	ug/l						
Styrene	ND		1	ug/l						
1,1,1,2-Tetrachloroethane	ND		1	ug/l						
Tetrachloroethene	ND		1	ug/l						
Tetrahydrofuran	ND		5	ug/l						

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>Blank (B2A0425-BLK1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Toluene	ND		1	ug/l						
1,2,4-Trichlorobenzene	ND		1	ug/l						
1,2,3-Trichlorobenzene	ND		1	ug/l						
1,1,2-Trichloroethane	ND		1	ug/l						
1,1,1-Trichloroethane	ND		1	ug/l						
Trichloroethene	ND		1	ug/l						
1,2,3-Trichloropropane	ND		1	ug/l						
1,3,5-Trimethylbenzene	ND		1	ug/l						
1,2,4-Trimethylbenzene	ND		1	ug/l						
Vinyl Chloride	ND		1	ug/l						
o-Xylene	ND		1	ug/l						
m&p-Xylene	ND		2	ug/l						
Total xylenes	ND		1	ug/l						
1,1,2,2-Tetrachloroethane	ND		1	ug/l						
tert-Amyl methyl ether	ND		1	ug/l						
1,3-Dichloropropane	ND		1	ug/l						
Ethyl tert-butyl ether	ND		1	ug/l						
Diisopropyl ether	ND		1	ug/l						
Trichlorofluoromethane	ND		1	ug/l						
Dichlorodifluoromethane	ND		1	ug/l						
tert-Amyl Alcohol	ND		5	ug/l						
<i>Surrogate: 4-Bromofluorobenzene</i>			46.6	ug/l	50.0		93.1	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			51.6	ug/l	50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>			47.5	ug/l	50.0		94.9	70-130		
<b>LCS (B2A0425-BS1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	43			ug/l	50.0		85.5	60-140		
Benzene	45			ug/l	50.0		89.6	70-130		
Bromobenzene	48			ug/l	50.0		95.9	70-130		
Bromochloromethane	47			ug/l	50.0		94.0	70-130		
Bromodichloromethane	44			ug/l	50.0		87.6	70-130		
Bromoform	47			ug/l	50.0		94.7	70-130		
Bromomethane	32			ug/l	50.0		64.6	70-130		
2-Butanone	41			ug/l	50.0		81.7	60-140		
tert-Butyl alcohol	43			ug/l	50.0		85.5	70-130		
sec-Butylbenzene	48			ug/l	50.0		95.6	70-130		
n-Butylbenzene	47			ug/l	50.0		93.2	70-130		
tert-Butylbenzene	47			ug/l	50.0		93.6	70-130		
Methyl t-butyl ether (MTBE)	43			ug/l	50.0		86.1	70-130		
Carbon Disulfide	44			ug/l	50.0		87.8	50-150		
Carbon Tetrachloride	43			ug/l	50.0		85.5	70-130		
Chlorobenzene	45			ug/l	50.0		89.6	70-130		
Chloroethane	49			ug/l	50.0		97.7	70-130		
Chloroform	42			ug/l	50.0		83.8	70-130		
Chloromethane	58			ug/l	50.0		116	70-130		
4-Chlorotoluene	45			ug/l	50.0		89.2	70-130		
2-Chlorotoluene	45			ug/l	50.0		89.4	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	43			ug/l	50.0		86.3	70-130		
Dibromochloromethane	46			ug/l	50.0		91.9	70-130		
1,2-Dibromoethane (EDB)	45			ug/l	50.0		89.3	70-130		
Dibromomethane	43			ug/l	50.0		86.6	70-130		
1,2-Dichlorobenzene	47			ug/l	50.0		93.7	70-130		
1,3-Dichlorobenzene	47			ug/l	50.0		93.1	70-130		
1,4-Dichlorobenzene	46			ug/l	50.0		92.0	70-130		
1,1-Dichloroethane	44			ug/l	50.0		88.4	70-130		
1,2-Dichloroethane	43			ug/l	50.0		86.0	70-130		
trans-1,2-Dichloroethene	46			ug/l	50.0		91.3	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS (B2A0425-BS1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
cis-1,2-Dichloroethene	41			ug/l	50.0		82.7	70-130		
1,1-Dichloroethene	45			ug/l	50.0		90.7	70-130		
1,2-Dichloropropane	43			ug/l	50.0		86.1	70-130		
2,2-Dichloropropane	49			ug/l	50.0		97.4	70-130		
cis-1,3-Dichloropropene	44			ug/l	50.0		88.6	70-130		
trans-1,3-Dichloropropene	44			ug/l	50.0		88.7	70-130		
1,1-Dichloropropene	51			ug/l	50.0		102	70-130		
Diethyl ether	42			ug/l	50.0		83.4	70-130		
1,4-Dioxane	223			ug/l	250		89.0	50-150		
Ethylbenzene	45			ug/l	50.0		90.1	70-130		
Hexachlorobutadiene	53			ug/l	50.0		106	70-130		
2-Hexanone	41			ug/l	50.0		81.8	70-130		
Isopropylbenzene	47			ug/l	50.0		93.1	70-130		
p-Isopropyltoluene	47			ug/l	50.0		94.0	70-130		
Methylene Chloride	44			ug/l	50.0		88.5	70-130		
4-Methyl-2-pentanone	42			ug/l	50.0		84.9	70-130		
Naphthalene	43			ug/l	50.0		86.1	70-130		
n-Propylbenzene	46			ug/l	50.0		92.1	70-130		
Styrene	46			ug/l	50.0		92.3	70-130		
1,1,1,2-Tetrachloroethane	46			ug/l	50.0		92.0	70-130		
Tetrachloroethene	49			ug/l	50.0		97.7	70-130		
Tetrahydrofuran	42			ug/l	50.0		84.9	50-150		
Toluene	43			ug/l	50.0		86.0	70-130		
1,2,4-Trichlorobenzene	48			ug/l	50.0		97.0	70-130		
1,2,3-Trichlorobenzene	46			ug/l	50.0		91.9	70-130		
1,1,2-Trichloroethane	43			ug/l	50.0		86.2	70-130		
1,1,1-Trichloroethane	46			ug/l	50.0		91.3	70-130		
Trichloroethene	40			ug/l	50.0		81.0	70-130		
1,2,3-Trichloropropane	42			ug/l	50.0		83.3	70-130		
1,3,5-Trimethylbenzene	46			ug/l	50.0		92.0	70-130		
1,2,4-Trimethylbenzene	46			ug/l	50.0		91.7	70-130		
Vinyl Chloride	54			ug/l	50.0		108	70-130		
o-Xylene	47			ug/l	50.0		93.2	70-130		
m&p-Xylene	92			ug/l	100		91.5	70-130		
1,1,2,2-Tetrachloroethane	42			ug/l	50.0		84.0	70-130		
tert-Amyl methyl ether	44			ug/l	50.0		87.0	70-130		
1,3-Dichloropropane	43			ug/l	50.0		86.6	70-130		
Ethyl tert-butyl ether	44			ug/l	50.0		88.1	70-130		
Trichlorofluoromethane	46			ug/l	50.0		91.1	70-130		
Dichlorodifluoromethane	71			ug/l	50.0		143	70-130		
<hr/>										
Surrogate: 4-Bromofluorobenzene			48.2	ug/l	50.0		96.5	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.5	ug/l	50.0		107	70-130		
Surrogate: Toluene-d8			48.7	ug/l	50.0		97.3	70-130		

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B2A0425-BSD1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
Acetone	43			ug/l	50.0		86.4	60-140	1.05	20
Benzene	44			ug/l	50.0		87.2	70-130	2.71	20
Bromobenzene	47			ug/l	50.0		94.8	70-130	1.13	20
Bromochloromethane	44			ug/l	50.0		88.8	70-130	5.69	20
Bromodichloromethane	43			ug/l	50.0		86.7	70-130	1.12	20
Bromoform	48			ug/l	50.0		96.2	70-130	1.63	20
Bromomethane	37			ug/l	50.0		74.4	70-130	14.0	20
2-Butanone	41			ug/l	50.0		81.5	60-140	0.319	20
tert-Butyl alcohol	40			ug/l	50.0		80.8	70-130	5.70	20
sec-Butylbenzene	47			ug/l	50.0		93.3	70-130	2.41	20
n-Butylbenzene	44			ug/l	50.0		88.2	70-130	5.54	20
tert-Butylbenzene	46			ug/l	50.0		91.8	70-130	1.90	20
Methyl t-butyl ether (MTBE)	43			ug/l	50.0		85.6	70-130	0.606	20
Carbon Disulfide	43			ug/l	50.0		85.0	50-150	3.24	20
Carbon Tetrachloride	42			ug/l	50.0		85.0	70-130	0.634	20
Chlorobenzene	44			ug/l	50.0		88.2	70-130	1.55	20
Chloroethane	51			ug/l	50.0		102	70-130	3.79	20
Chloroform	42			ug/l	50.0		83.8	70-130	0.0477	20
Chloromethane	57			ug/l	50.0		113	70-130	2.62	20
4-Chlorotoluene	44			ug/l	50.0		87.6	70-130	1.81	20
2-Chlorotoluene	44			ug/l	50.0		87.7	70-130	1.94	20
1,2-Dibromo-3-chloropropane (DBCP)	42			ug/l	50.0		84.3	70-130	2.35	20
Dibromochloromethane	45			ug/l	50.0		90.5	70-130	1.49	20
1,2-Dibromoethane (EDB)	44			ug/l	50.0		88.3	70-130	1.19	20
Dibromomethane	44			ug/l	50.0		87.8	70-130	1.33	20
1,2-Dichlorobenzene	45			ug/l	50.0		89.1	70-130	4.97	20
1,3-Dichlorobenzene	46			ug/l	50.0		91.6	70-130	1.60	20
1,4-Dichlorobenzene	44			ug/l	50.0		88.2	70-130	4.31	20
1,1-Dichloroethane	43			ug/l	50.0		86.6	70-130	2.03	20
1,2-Dichloroethane	42			ug/l	50.0		84.6	70-130	1.62	20
trans-1,2-Dichloroethene	45			ug/l	50.0		89.1	70-130	2.40	20
cis-1,2-Dichloroethene	41			ug/l	50.0		82.4	70-130	0.412	20
1,1-Dichloroethene	44			ug/l	50.0		87.4	70-130	3.70	20
1,2-Dichloropropane	43			ug/l	50.0		86.8	70-130	0.856	20
2,2-Dichloropropane	48			ug/l	50.0		96.4	70-130	1.09	20
cis-1,3-Dichloropropene	44			ug/l	50.0		87.8	70-130	0.907	20
trans-1,3-Dichloropropene	44			ug/l	50.0		87.9	70-130	0.815	20
1,1-Dichloropropene	50			ug/l	50.0		100	70-130	1.93	20
Diethyl ether	42			ug/l	50.0		83.2	70-130	0.192	20
1,4-Dioxane	216			ug/l	250		86.2	50-150	3.21	20
Ethylbenzene	44			ug/l	50.0		88.5	70-130	1.77	20
Hexachlorobutadiene	50			ug/l	50.0		99.6	70-130	5.94	20
2-Hexanone	41			ug/l	50.0		82.5	70-130	0.803	20
Isopropylbenzene	46			ug/l	50.0		91.9	70-130	1.25	20
p-Isopropyltoluene	46			ug/l	50.0		92.5	70-130	1.59	20
Methylene Chloride	43			ug/l	50.0		86.4	70-130	2.47	20
4-Methyl-2-pentanone	42			ug/l	50.0		83.2	70-130	2.05	20
Naphthalene	41			ug/l	50.0		81.8	70-130	5.12	20
n-Propylbenzene	45			ug/l	50.0		90.4	70-130	1.88	20
Styrene	46			ug/l	50.0		91.9	70-130	0.347	20
1,1,1,2-Tetrachloroethane	46			ug/l	50.0		92.0	70-130	0.0652	20
Tetrachloroethene	47			ug/l	50.0		94.9	70-130	2.91	20
Tetrahydrofuran	40			ug/l	50.0		80.8	50-150	5.02	20
Toluene	42			ug/l	50.0		84.6	70-130	1.62	20
1,2,4-Trichlorobenzene	46			ug/l	50.0		92.1	70-130	5.10	20
1,2,3-Trichlorobenzene	43			ug/l	50.0		86.3	70-130	6.29	20
1,1,2-Trichloroethane	42			ug/l	50.0		85.0	70-130	1.46	20

**Quality Control**  
(Continued)

**Volatile Organic Compounds (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B2A0425 - Purge-Trap (Continued)</b>										
<b>LCS Dup (B2A0425-BSD1)</b>										
					Prepared: 01/10/22 Analyzed: 01/11/22					
1,1,1-Trichloroethane	45			ug/l	50.0		90.4	70-130	0.990	20
Trichloroethene	41			ug/l	50.0		81.4	70-130	0.542	20
1,2,3-Trichloropropane	42			ug/l	50.0		83.2	70-130	0.144	20
1,3,5-Trimethylbenzene	45			ug/l	50.0		89.2	70-130	3.05	20
1,2,4-Trimethylbenzene	45			ug/l	50.0		90.2	70-130	1.56	20
Vinyl Chloride	54			ug/l	50.0		107	70-130	0.724	20
o-Xylene	45			ug/l	50.0		90.6	70-130	2.85	20
m&p-Xylene	90			ug/l	100		89.6	70-130	2.16	20
1,1,2,2-Tetrachloroethane	41			ug/l	50.0		82.5	70-130	1.80	20
tert-Amyl methyl ether	44			ug/l	50.0		87.1	70-130	0.0459	20
1,3-Dichloropropane	43			ug/l	50.0		85.1	70-130	1.79	20
Ethyl tert-butyl ether	43			ug/l	50.0		86.4	70-130	1.93	20
Trichlorofluoromethane	44			ug/l	50.0		88.7	70-130	2.67	20
Dichlorodifluoromethane	68			ug/l	50.0		136	70-130	5.19	20
-----										
Surrogate: 4-Bromofluorobenzene			49.1	ug/l	50.0		98.2	70-130		
Surrogate: 1,2-Dichloroethane-d4			55.2	ug/l	50.0		110	70-130		
Surrogate: Toluene-d8			48.5	ug/l	50.0		97.0	70-130		

## Notes and Definitions

<b>Item</b>	<b>Definition</b>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

NEW ENGLAND TESTING LABORATORY, INC.  
 59 Greenhill Street  
 West Warwick, RI 02893  
 1-888-863-8522



2 A 1 0079 0

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		PRESERVATIVE	TESTS**	REMARKS														
53977		1144 Eddy St. Providence, RI																		
CLIENT																				
SAGE Environmental, Inc.				AQUEOUS	SOIL	OTHER	NO OF CONTAINERS													
REPORT TO: sage@sage-enviro.com																				
INVOICE TO:				DATE	TIME	COMP	GRAB	SAMPLE I.D.												
1-10-22	11:15	X		SE-301 (MW)	X		3	HCL ✓	X											
1-10-22	12:35	X		SE-302 (MW)	X					X										

Sampled by: (Signature) <i>But...</i>	Date/Time 1-19-22 13:10	Received by: (Signature)	Date/Time	Laboratory Remarks: Temp. received: _____ Cooled <input checked="" type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements: <b>RIDEM</b> <b>GB GW obj.</b>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
Relinquished by: (Signature) <i>But...</i>	Date/Time 1-19-22 15:40	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 1/10 1540		

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

Turnaround (Business Days) **48 hour**

DL



## APPENDIX H



## Standard Operating Procedure Installation and Extraction of the Vapor Pin®

Updated September 9, 2016

### Scope:

This standard operating procedure describes the installation and extraction of the VAPOR PIN® for use in sub-slab soil-gas sampling.

### Purpose:

The purpose of this procedure is to assure good quality control in field operations and uniformity between field personnel in the use of the VAPOR PIN® for the collection of sub-slab soil-gas samples or pressure readings.

### Equipment Needed:

- Assembled VAPOR PIN® [VAPOR PIN® and silicone sleeve(Figure 1)]; Because of sharp edges, gloves are recommended for sleeve installation;
- Hammer drill;
- 5/8-inch (16mm) diameter hammer bit (hole must be 5/8-inch (16mm) diameter to ensure seal. It is recommended that you use the drill guide). (Hilti™ TE-YX 5/8" x 22" (400 mm) #00206514 or equivalent);
- 1½-inch (38mm) diameter hammer bit (Hilti™ TE-YX 1½" x 23" #00293032 or equivalent) for flush mount applications;
- ¾-inch (19mm) diameter bottle brush;
- Wet/Dry vacuum with HEPA filter (optional);
- VAPOR PIN® installation/extraction tool;
- Dead blow hammer;
- VAPOR PIN® flush mount cover, if desired;
- VAPOR PIN® drilling guide, if desired;

- VAPOR PIN® protective cap; and
- VOC-free hole patching material (hydraulic cement) and putty knife or trowel for repairing the hole following the extraction of the VAPOR PIN®.



Figure 1. Assembled VAPOR PIN®

### Installation Procedure:

- 1) Check for buried obstacles (pipes, electrical lines, etc.) prior to proceeding.
- 2) Set up wet/dry vacuum to collect drill cuttings.
- 3) If a flush mount installation is required, drill a 1½-inch (38mm) diameter hole at least 1¾-inches (45mm) into the slab. Use of a VAPOR PIN® drilling guide is recommended.
- 4) Drill a 5/8-inch (16mm) diameter hole through the slab and approximately 1-inch (25mm) into the underlying soil to form a void. Hole must be 5/8-inch (16mm) in diameter to ensure seal. It is recommended that you use the drill guide.

VAPOR PIN® protected under US Patent # 8,220,347 B2, US 9,291,531 B2 and other patents pending

- 5) Remove the drill bit, brush the hole with the bottle brush, and remove the loose cuttings with the vacuum.
- 6) Place the lower end of VAPOR PIN® assembly into the drilled hole. Place the small hole located in the handle of the installation/extraction tool over the vapor pin to protect the barb fitting, and tap the vapor pin into place using a dead blow hammer (Figure 2). Make sure the installation/extraction tool is aligned parallel to the vapor pin to avoid damaging the barb fitting.



Figure 2. Installing the VAPOR PIN®

During installation, the silicone sleeve will form a slight bulge between the slab and the VAPOR PIN® shoulder. Place the protective cap on VAPOR PIN® to prevent vapor loss prior to sampling (Figure 3).



Figure 3. Installed VAPOR PIN®

- 7) For flush mount installations, cover the vapor pin with a flush mount cover, using either the plastic cover or the optional stainless-steel Secure Cover (Figure 4).



Figure 4. Secure Cover Installed

- 8) Allow 20 minutes or more (consult applicable guidance for your situation) for the sub-slab soil-gas conditions to re-equilibrate prior to sampling.
- 9) Remove protective cap and connect sample tubing to the barb fitting of the VAPOR PIN®. This connection can be made using a short piece of Tygon™ tubing to join the VAPOR PIN® with the Nylaflo tubing (Figure 5). Put the

Nylaflow tubing as close to the VAPOR PIN® as possible to minimize contact between soil gas and Tygon™ tubing.



Figure 5. VAPOR PIN® sample connection

10) Conduct leak tests in accordance with applicable guidance. If the method of leak testing is not specified, an alternative can be the use of a water dam and vacuum pump, as described in SOP Leak Testing the VAPOR PIN® via Mechanical Means (Figure 6). For flush-mount installations, distilled water can be poured directly into the 1 1/2 inch (38mm) hole.



Figure 6. Water dam used for leak detection

11) Collect sub-slab soil gas sample or pressure reading. When finished, replace the protective cap and flush mount cover

until the next event. If the sampling is complete, extract the VAPOR PIN®.

#### Extraction Procedure:

- 1) Remove the protective cap, and thread the installation/extraction tool onto the barrel of the VAPOR PIN® (Figure 7). Turn the tool clockwise continuously, don't stop turning, the VAPOR PIN® will feed into the bottom of the installation/extraction tool and will extract from the hole like a wine cork, DO NOT PULL.
- 2) Fill the void with hydraulic cement and smooth with a trowel or putty knife.



Figure 7. Removing the VAPOR PIN®

- Prior to reuse, remove the silicone sleeve and protective cap and discard. Decontaminate the VAPOR PIN® in a hot water and Alconox® wash, then heat in an oven to a temperature of 265° F (130° C) for 15 to 30 minutes. For both steps, STAINLESS – ½ hour, BRASS 8 minutes
- 3) Replacement parts and supplies are available online.

## **APPENDIX I**



Wednesday, December 01, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCJ85468  
Sample ID#s: CJ85468 - CJ85471

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 01, 2021

SDG I.D.: GCJ85468

Project ID: S3977

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Client Id	Lab Id	Matrix
SE-SG-103	CJ85468	AIR
SE-SG-105	CJ85469	AIR
SE-SG-101	CJ85470	AIR
SE-SG-102	CJ85471	AIR



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 01, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 28607

Custody Information

Collected by: MVP  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 11/22/21 14:45  
 11/24/21 14:15

Project ID: S3977  
 Client ID: SE-SG-103

Laboratory Data

SDG ID: GCJ85468  
 Phoenix ID: CJ85468

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/24/21	KCA	5
1,1,1-Trichloroethane	58.2	2.50	317	13.6	11/24/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/24/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/24/21	KCA	5
1,1-Dichloroethane	48.8	2.50	197	10.1	11/24/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/24/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/24/21	KCA	5
1,2,4-Trimethylbenzene	42.7	2.50	210	12.3	11/24/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/24/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/24/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/24/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/24/21	KCA	5
1,3,5-Trimethylbenzene	11.6	2.50	57.0	12.3	11/24/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/24/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/24/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/24/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/24/21	KCA	5
4-Ethyltoluene	35.8	2.50	176	12.3	11/24/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/24/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/24/21	KCA	5
Acetone	33.8	2.50	80.2	5.93	11/24/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/24/21	KCA	5
Benzene	7.03	2.50	22.4	7.98	11/24/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/24/21	KCA	5



Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/24/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/24/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/24/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/24/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/24/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/24/21	KCA	5
Chloroethane	4.40	2.50	11.6	6.59	11/24/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/24/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/24/21	KCA	5
Cis-1,2-Dichloroethene	58.0	2.50	230	9.9	11/24/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/24/21	KCA	5
Cyclohexane	20.8	2.50	71.6	8.60	11/24/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/24/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/24/21	KCA	5
Ethanol	224	E 2.50	422	4.71	11/24/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/24/21	KCA	5
Ethylbenzene	34.9	2.50	151	10.8	11/24/21	KCA	5
Heptane	25.9	2.50	106	10.2	11/24/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/24/21	KCA	5
Hexane	21.7	2.50	76.4	8.81	11/24/21	KCA	5
Isopropylalcohol	ND	2.50	ND	6.14	11/24/21	KCA	5
Isopropylbenzene	2.95	2.50	14.5	12.3	11/24/21	KCA	5
m,p-Xylene	123	5.00	534	21.7	11/24/21	KCA	5
Methyl Ethyl Ketone	30.7	2.50	90.5	7.37	11/24/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/24/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/24/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/24/21	KCA	5
o-Xylene	42.4	2.50	184	10.8	11/24/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/24/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/24/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/24/21	KCA	5
Tetrachloroethene	3.49	1.00	23.7	6.78	11/24/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/24/21	KCA	5
Toluene	152	2.50	572	9.42	11/24/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/24/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/24/21	KCA	5
Trichloroethene	78.8	1.00	423	5.37	11/24/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/24/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/24/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/24/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/24/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	111	%	111	%	11/24/21	KCA	5
% IS-Bromochloromethane (5x)	108	%	108	%	11/24/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	118	%	118	%	11/24/21	KCA	5

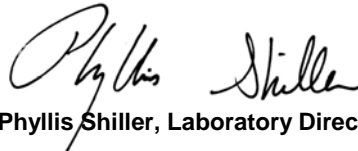
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 12867

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date                      Time  
11/22/21                      14:43  
11/24/21                      14:15

Project ID: S3977  
Client ID: SE-SG-105

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85469

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	28.2	2.50	139	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	7.70	2.50	37.8	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	24.1	2.50	118	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	19.7	2.50	46.8	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	5.21	2.50	16.6	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	14.0	2.50	48.2	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	141	2.50	266	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	26.8	2.50	116	10.8	11/25/21	KCA	5
Heptane	19.5	2.50	79.9	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	15.4	2.50	54.2	8.81	11/25/21	KCA	5
Isopropylalcohol	6.86	2.50	16.9	6.14	11/25/21	KCA	5
Isopropylbenzene	ND	2.50	ND	12.3	11/25/21	KCA	5
m,p-Xylene	94.5	5.00	410	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	18.2	2.50	53.6	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	31.5	2.50	137	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	ND	1.00	ND	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	121	2.50	456	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	ND	1.00	ND	5.37	11/25/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	121	%	121	%	11/25/21	KCA	5

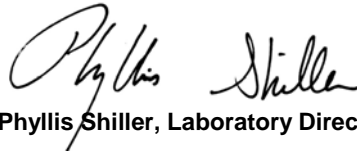
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

E = Estimated value quantitated above calibration range for this compound.

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**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 19786  
Project ID: S3977  
Client ID: SE-SG-101

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date Time  
11/22/21 14:52  
11/24/21 14:15

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85470

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles (TO15)</u></b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	149	2.50	812	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	5.16	2.50	20.9	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	24.5	2.50	120	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	7.32	2.50	36.0	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	23.9	2.50	117	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	23.8	2.50	56.5	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	6.37	2.50	20.3	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	19.2	2.50	76.1	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	16.1	2.50	55.4	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	170	2.50	320	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	31.1	2.50	135	10.8	11/25/21	KCA	5
Heptane	22.0	2.50	90.1	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	17.6	2.50	62.0	8.81	11/25/21	KCA	5
Isopropylalcohol	5.59	2.50	13.7	6.14	11/25/21	KCA	5
Isopropylbenzene	ND	2.50	ND	12.3	11/25/21	KCA	5
m,p-Xylene	110	5.00	477	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	24.0	2.50	70.7	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	35.8	2.50	155	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	94.0	1.00	637	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	143	2.50	539	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	860	15.0	4620	80.6	11/29/21	KCA	75
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	101	%	101	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	112	%	112	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	112	%	112	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	118	%	118	%	11/25/21	KCA	5
% Bromofluorobenzene (75x)	103	%	103	%	11/29/21	KCA	75
% IS-1,4-Difluorobenzene (75x)	91	%	91	%	11/29/21	KCA	75
% IS-Bromochloromethane (75x)	94	%	94	%	11/29/21	KCA	75
% IS-Chlorobenzene-d5 (75x)	93	%	93	%	11/29/21	KCA	75

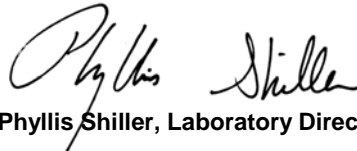
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
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**Comments:**

E = Estimated value quantitated above calibration range for this compound.

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**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 01, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 28564

## Custody Information

Collected by: MVP  
Received by: CP  
Analyzed by: see "By" below

Date Time  
11/22/21 14:49  
11/24/21 14:15

Project ID: S3977  
Client ID: SE-SG-102

## Laboratory Data

SDG ID: GCJ85468  
Phoenix ID: CJ85471

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,1-Trichloroethane	26.9	2.50	147	13.6	11/25/21	KCA	5
1,1,2,2-Tetrachloroethane	ND	2.50	ND	17.2	11/25/21	KCA	5
1,1,2-Trichloroethane	ND	2.50	ND	13.6	11/25/21	KCA	5
1,1-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,1-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
1,2,4-Trichlorobenzene	ND	2.50	ND	18.5	11/25/21	KCA	5
1,2,4-Trimethylbenzene	28.7	2.50	141	12.3	11/25/21	KCA	5
1,2-Dibromoethane(EDB)	ND	2.50	ND	19.2	11/25/21	KCA	5
1,2-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,2-Dichloroethane	ND	2.50	ND	10.1	11/25/21	KCA	5
1,2-dichloropropane	ND	2.50	ND	11.5	11/25/21	KCA	5
1,2-Dichlorotetrafluoroethane	ND	2.50	ND	17.5	11/25/21	KCA	5
1,3,5-Trimethylbenzene	8.54	2.50	42.0	12.3	11/25/21	KCA	5
1,3-Butadiene	ND	2.50	ND	5.53	11/25/21	KCA	5
1,3-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dichlorobenzene	ND	2.50	ND	15.0	11/25/21	KCA	5
1,4-Dioxane	ND	2.50	ND	9.00	11/25/21	KCA	5
2-Hexanone(MBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
4-Ethyltoluene	26.6	2.50	131	12.3	11/25/21	KCA	5
4-Isopropyltoluene	ND	2.50	ND	13.7	11/25/21	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	2.50	ND	10.2	11/25/21	KCA	5
Acetone	29.6	2.50	70.3	5.93	11/25/21	KCA	5
Acrylonitrile	ND	2.50	ND	5.42	11/25/21	KCA	5
Benzene	6.49	2.50	20.7	7.98	11/25/21	KCA	5
Benzyl chloride	ND	2.50	ND	12.9	11/25/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	2.00	ND	13.4	11/25/21	KCA	5
Bromoform	ND	2.50	ND	25.8	11/25/21	KCA	5
Bromomethane	ND	2.50	ND	9.7	11/25/21	KCA	5
Carbon Disulfide	ND	2.50	ND	7.78	11/25/21	KCA	5
Carbon Tetrachloride	ND	2.50	ND	15.7	11/25/21	KCA	5
Chlorobenzene	ND	2.50	ND	11.5	11/25/21	KCA	5
Chloroethane	ND	2.50	ND	6.59	11/25/21	KCA	5
Chloroform	ND	2.50	ND	12.2	11/25/21	KCA	5
Chloromethane	ND	2.50	ND	5.16	11/25/21	KCA	5
Cis-1,2-Dichloroethene	3.13	2.50	12.4	9.9	11/25/21	KCA	5
cis-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Cyclohexane	18.6	2.50	64.0	8.60	11/25/21	KCA	5
Dibromochloromethane	ND	2.50	ND	21.3	11/25/21	KCA	5
Dichlorodifluoromethane	ND	2.50	ND	12.4	11/25/21	KCA	5
Ethanol	194	2.50	365	4.71	11/25/21	KCA	5
Ethyl acetate	ND	2.50	ND	9.00	11/25/21	KCA	5
Ethylbenzene	33.8	2.50	147	10.8	11/25/21	KCA	5
Heptane	25.3	2.50	104	10.2	11/25/21	KCA	5
Hexachlorobutadiene	ND	2.50	ND	26.6	11/25/21	KCA	5
Hexane	20.3	2.50	71.5	8.81	11/25/21	KCA	5
Isopropylalcohol	6.77	2.50	16.6	6.14	11/25/21	KCA	5
Isopropylbenzene	2.56	2.50	12.6	12.3	11/25/21	KCA	5
m,p-Xylene	117	5.00	508	21.7	11/25/21	KCA	5
Methyl Ethyl Ketone	28.5	2.50	84.0	7.37	11/25/21	KCA	5
Methyl tert-butyl ether(MTBE)	ND	2.50	ND	9.01	11/25/21	KCA	5
Methylene Chloride	ND	2.50	ND	8.68	11/25/21	KCA	5
n-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
o-Xylene	39.7	2.50	172	10.8	11/25/21	KCA	5
Propylene	ND	2.50	ND	4.30	11/25/21	KCA	5
sec-Butylbenzene	ND	2.50	ND	13.7	11/25/21	KCA	5
Styrene	ND	2.50	ND	10.6	11/25/21	KCA	5
Tetrachloroethene	20.8	1.00	141	6.78	11/25/21	KCA	5
Tetrahydrofuran	ND	2.50	ND	7.37	11/25/21	KCA	5
Toluene	153	2.50	576	9.42	11/25/21	KCA	5
Trans-1,2-Dichloroethene	ND	2.50	ND	9.9	11/25/21	KCA	5
trans-1,3-Dichloropropene	ND	2.50	ND	11.3	11/25/21	KCA	5
Trichloroethene	178	1.00	956	5.37	11/25/21	KCA	5
Trichlorofluoromethane	ND	2.50	ND	14.0	11/25/21	KCA	5
Trichlorotrifluoroethane	ND	2.50	ND	19.1	11/25/21	KCA	5
Vinyl Chloride	ND	2.50	ND	6.39	11/25/21	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	100	%	100	%	11/25/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	116	%	116	%	11/25/21	KCA	5
% IS-Bromochloromethane (5x)	117	%	117	%	11/25/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	123	%	123	%	11/25/21	KCA	5

Project ID: S3977  
Client ID: SE-SG-102

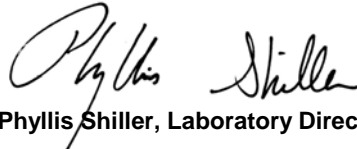
Phoenix I.D.: CJ85471

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 01, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

## Canister Sampling Information

December 01, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Location Code: SAGE

SDG I.D.: GCJ85468

Project ID: S3977

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SE-SG-103	CJ85468	28607	6.0L	3510	11/16/21	-30	-6	173	174	0.6	-29	-8	11/22/21 14:17	11/22/21 14:45
SE-SG-105	CJ85469	12867	6.0L	5622	11/16/21	-30	-2	173	173	0.0	-28	-1	11/22/21 14:10	11/22/21 14:43
SE-SG-101	CJ85470	19786	6.0L	4493	11/16/21	-30	-7	173	161	7.2	-28	-7	11/22/21 14:24	11/22/21 14:52
SE-SG-102	CJ85471	28564	6.0L	4493	11/16/21	-30	-6	173	186	7.2	-27	-8	11/22/21 14:21	11/22/21 14:49



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 01, 2021

## QA/QC Data

SDG I.D.: GCJ85468

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 602426 (ppbv), QC Sample No: CJ82368 (CJ85470 (75X) )

### Volatiles

Trichloroethene	ND	0.200	ND	1.07	103	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103	%	103	%	106	105	108	105	108	NC	70 - 130	25
% IS-1,4-Difluorobenzene	91	%	91	%	102	102	88	102	88	NC	60 - 140	25
% IS-Bromochloromethane	92	%	92	%	103	104	90	104	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	87	%	87	%	111	101	88	101	88	NC	60 - 140	25

QA/QC Batch 602260 (ppbv), QC Sample No: CJ85466 (CJ85468 (5X) , CJ85469 (5X) , CJ85470 (5X) , CJ85471 (5X) )

### Volatiles

1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	101	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	122	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	118	2.04	2.07	0.416	0.421	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	118	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	101	0.07	0.07	0.017	0.017	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	114	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	97	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	113	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	115	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	84	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	112	1.60	1.73	0.326	0.352	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	113	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	103	1.16	1.15	0.284	0.280	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	80	27.5	27.5	11.6	11.6	0.0	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	91	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	104	2.53	2.51	0.793	0.787	0.8	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	97	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	107	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	119	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	103	0.54	0.53	0.086	0.084	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	107	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	99	ND	ND	ND	ND	NC	70 - 130	25

## QA/QC Data

SDG I.D.: GCJ85468

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	0.250	ND	0.52	101	0.67	0.66	0.323	0.322	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	99	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	109	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	99	5.09	5.30	1.48	1.54	4.0	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	108	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	105	1.99	2.07	0.402	0.418	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	86	65.0 E	68.2	34.5 E	36.2	4.8	70 - 130	25
Ethyl acetate	ND	0.250	ND	0.90	76	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	109	1.22	1.24	0.280	0.286	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	105	2.40	2.33	0.587	0.568	NC	70 - 130	25
Hexachlorobutadiene	ND	0.005	ND	0.05	109	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	95	10.6	11.1	3.01	3.14	4.2	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	109	ND	ND	ND	ND	NC	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	110	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	111	4.64	4.64	1.07	1.07	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	98	ND	2.77	ND	0.941	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	100	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	85	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.250	ND	1.37	115	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	116	1.40	1.42	0.323	0.328	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	96	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	113	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	113	0.45	0.43	0.105	0.101	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	109	1.00	0.96	0.148	0.141	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	94	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	109	12.2	12.1	3.23	3.22	0.3	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	98	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	103	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	105	0.18	0.18	0.034	0.033	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	105	2.99	3.10	0.532	0.552	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	102	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	101	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	100	%	100	%	102	98	100	98	100	NC	70 - 130	25
% IS-1,4-Difluorobenzene	105	%	105	%	105	101	105	101	105	NC	60 - 140	25
% IS-Bromochloromethane	105	%	105	%	105	101	104	101	104	NC	60 - 140	25
% IS-Chlorobenzene-d5	105	%	105	%	106	106	106	106	106	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

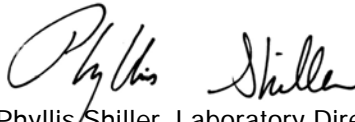
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
Phyllis Shiller, Laboratory Director  
December 01, 2021

Wednesday, December 01, 2021

Criteria: None

State: RI

## Sample Criteria Exceedances Report

GCJ85468 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 01, 2021

SDG I.D.: GCJ85468

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

### **AIRSIM**

**CHEM24 11/24/21-1:** CJ85468, CJ85469, CJ85470, CJ85471

The following Continuing Calibration compounds did not meet % deviation criteria: Isopropylalcohol 491%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Isopropylalcohol 491%H (30%)





587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD  
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page of

Data Delivery:

Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Phone #: \_\_\_\_\_

Report to: <b>Amy Mulhern</b>	Project Name: <b>53977</b>	Data Format: (Circle) Equis Excel Other: _____
Customer: <b>Sage ENV.</b>	Invoice to: <b>Sage @ sage-env.com</b>	Requested Deliverable: RCP ASP CAT B
Address: <b>172 Armitage Blvd, Pawtucket RI</b>		MCP NJ Deliverables
	Sampled by: <b>MVP</b>	Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
85468	SE-SG-103	28607	6.0	-30	-6	3510	173	14:17	14:45	11/22	29	8					
85469	SE-SG-105	12867	↓	↓	-2	5622	↓	14:10	14:42	11/22	26	1					
		23349	↓	↓		5660	↓										
85470	SE-SG-101	19786	↓	↓	-7	4495	↓	14:24	14:52	11/22	28	7					
85471	SE-SG-102	28564	↓	↓	-6	4493	↓	14:21	14:49	11/22	27	8					

Relinquished by:	Accepted by:	Date: <b>11/24/21</b>	Time: <b>12:30</b>	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.
		Date: <b>11/24</b>	Time: <b>1415</b>	

State Where Samples Collected: <b>RI</b>	Turnaround Time: 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input type="checkbox"/>	Requested Criteria: (Please Circle) CT: TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	MA: <input type="checkbox"/> NJ: <input type="checkbox"/> NY: <input type="checkbox"/> PA: <input type="checkbox"/> VT: <input type="checkbox"/>	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Vapor Intrusion	Indoor Air: Residential Non-residential	Indoor Air: Residential Industrial Sub-slab Residential Industrial
SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION: <b>5(6L) 30 min</b>								

## **APPENDIX J**



Tuesday, December 28, 2021

Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

Project ID: S3977  
SDG ID: GCK04448  
Sample ID#s: CK04448 - CK04451

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 28, 2021

SDG I.D.: GCK04448

Project ID: S3977

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Client Id	Lab Id	Matrix
SE-IA-102	CK04448	AIR
SE-IA-103	CK04449	AIR
SE-IA-101	CK04450	AIR
SE-AA-101	CK04451	AIR



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 28, 2021

FOR: Attn:  
Sage Environmental Inc.  
172 Armistice Blvd.  
Pawtucket, RI 02860

## Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: Standard  
P.O.#:  
Canister Id: 355  
Project ID: S3977  
Client ID: SE-IA-102

## Custody Information

Collected by: JHB  
Received by: CP  
Analyzed by: see "By" below

Date Time  
12/20/21 8:32  
12/22/21 13:17

## Laboratory Data

SDG ID: GCK04448  
Phoenix ID: CK04448

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles TO15</b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.017	0.010	0.07	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	3.44	0.375	8.17	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.252	0.100	0.80	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

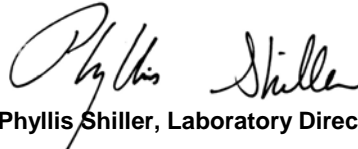
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	0.025	0.010	0.17	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.081	0.043	0.51	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	0.250	0.100	1.22	0.49	12/22/21	KCA	0.5
Chloromethane	0.584	0.250	1.21	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	0.250	0.100	0.99	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.494	0.250	2.44	1.24	12/22/21	KCA	0.5
Ethanol	4.54	0.375	8.55	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	0.241	0.225	0.85	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.697	0.375	1.71	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	0.227	0.225	0.67	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	0.093	0.050	0.49	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	0.997	0.050	6.76	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.461	0.250	1.74	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	1.55	0.025	8.32	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	0.054	0.050	0.14	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	99	%	99	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	90	%	90	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	93	%	93	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	87	%	87	%	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 28, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 16011

Custody Information

Collected by: JHB  
 Received by: CP  
 Analyzed by: see "By" below

Date                      Time  
 12/20/21                      8:36  
 12/22/21                      13:17

Project ID: S3977  
 Client ID: SE-IA-103

Laboratory Data

SDG ID: GCK04448  
 Phoenix ID: CK04449

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	3.21	0.375	7.62	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.257	0.100	0.82	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5



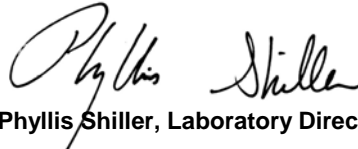
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.073	0.043	0.46	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	ND	0.100	ND	0.49	12/22/21	KCA	0.5
Chloromethane	0.515	0.250	1.06	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.430	0.250	2.13	1.24	12/22/21	KCA	0.5
Ethanol	4.26	0.375	8.02	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.639	0.375	1.57	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	0.054	0.050	0.28	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	0.117	0.050	0.79	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.369	0.250	1.39	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	0.096	0.025	0.52	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	102	%	102	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	98	%	98	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	101	%	101	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	91	%	91	%	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 28, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 28565  
 Project ID: S3977  
 Client ID: SE-IA-101

Custody Information

Collected by: JHB  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/20/21  
 12/22/21

Time

8:26  
 13:17

Laboratory Data

SDG ID: GCK04448  
 Phoenix ID: CK04450

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	0.355	0.250	1.94	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	2.69	0.375	6.39	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.248	0.100	0.79	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	0.032	0.010	0.21	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.075	0.043	0.47	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	0.343	0.100	1.67	0.49	12/22/21	KCA	0.5
Chloromethane	0.530	0.250	1.09	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	0.286	0.100	1.13	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.431	0.250	2.13	1.24	12/22/21	KCA	0.5
Ethanol	3.59	0.375	6.76	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	0.515	0.375	1.27	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	ND	0.050	ND	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	1.67	0.050	11.3	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.436	0.250	1.64	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	2.63	0.025	14.1	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	0.070	0.050	0.18	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	101	%	101	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	97	%	97	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	97	%	97	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	90	%	90	%	12/22/21	KCA	0.5

Project ID: S3977  
Client ID: SE-IA-101

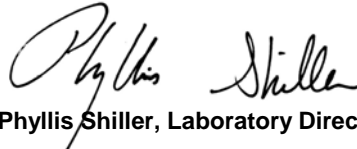
Phoenix I.D.: CK04450

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 28, 2021

FOR: Attn:  
 Sage Environmental Inc.  
 172 Armistice Blvd.  
 Pawtucket, RI 02860

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: Standard  
 P.O.#:  
 Canister Id: 28610  
 Project ID: S3977  
 Client ID: SE-AA-101

Custody Information

Collected by: JHB  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/20/21  
 12/22/21

Time

8:40  
 13:17

Laboratory Data

SDG ID: GCK04448  
 Phoenix ID: CK04451

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	12/22/21	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	12/22/21	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	12/22/21	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	12/22/21	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	12/22/21	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	12/22/21	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,2-Dichloroethane	0.015	0.010	0.06	0.04	12/22/21	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	12/22/21	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	12/22/21	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	12/22/21	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	12/22/21	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	12/22/21	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	12/22/21	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Acetone	1.51	0.375	3.58	0.89	12/22/21	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	12/22/21	KCA	0.5
Benzene	0.231	0.100	0.74	0.32	12/22/21	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	12/22/21	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	12/22/21	KCA	0.5
Bromoform	ND	0.075	ND	0.77	12/22/21	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	12/22/21	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	12/22/21	KCA	0.5
Carbon Tetrachloride	0.073	0.043	0.46	0.27	12/22/21	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	12/22/21	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	12/22/21	KCA	0.5
Chloroform	ND	0.100	ND	0.49	12/22/21	KCA	0.5
Chloromethane	0.535	0.250	1.10	0.52	12/22/21	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	12/22/21	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	12/22/21	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	12/22/21	KCA	0.5
Dichlorodifluoromethane	0.438	0.250	2.16	1.24	12/22/21	KCA	0.5
Ethanol	2.47	0.375	4.65	0.71	12/22/21	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Heptane	ND	0.250	ND	1.02	12/22/21	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	12/22/21	KCA	0.5
Hexane	ND	0.225	ND	0.79	12/22/21	KCA	0.5
Isopropylalcohol	ND	0.375	ND	0.92	12/22/21	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	12/22/21	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	12/22/21	KCA	0.5
Methyl Ethyl Ketone	ND	0.225	ND	0.66	12/22/21	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	12/22/21	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	12/22/21	KCA	0.5
Naphthalene	ND	0.050	ND	0.26	12/22/21	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	12/22/21	KCA	0.5
Propylene	ND	0.250	ND	0.43	12/22/21	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	12/22/21	KCA	0.5
Styrene	ND	0.100	ND	0.43	12/22/21	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	12/22/21	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	12/22/21	KCA	0.5
Toluene	0.332	0.250	1.25	0.94	12/22/21	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	12/22/21	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	12/22/21	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	12/22/21	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	12/22/21	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	12/22/21	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	12/22/21	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	98	%	98	%	12/22/21	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	12/22/21	KCA	0.5
% IS-Bromochloromethane	98	%	98	%	12/22/21	KCA	0.5
% IS-Chlorobenzene-d5	89	%	89	%	12/22/21	KCA	0.5

Project ID: S3977  
Client ID: SE-AA-101

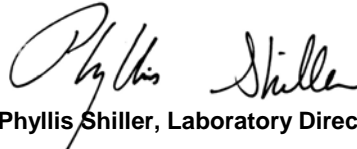
Phoenix I.D.: CK04451

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 28, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 28, 2021

## QA/QC Data

SDG I.D.: GCK04448

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 605824 (ppbv), QC Sample No: CK04340 (CK04448 (0.5X) , CK04449 (0.5X) , CK04450 (0.5X) , CK04451 (0.5X) )												
<b>Volatiles</b>												
1,1,1,2-Tetrachloroethane	ND	0.038	ND	0.26	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.07	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.010	ND	0.04	94	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	68	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.010	ND	0.08	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	104	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	117	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	118	1.23	1.26	0.205	0.209	1.9	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	93	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	107	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	106	1.68	1.66	0.307	0.303	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	103	935	914	394	385	2.3	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	99	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	105	1.34	1.32	0.420	0.412	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	113	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	103	0.57	0.53	0.085	0.079	7.3	70 - 130	25
Bromoform	ND	0.075	ND	0.77	97	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	103	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	106	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	108	0.64	0.60	0.101	0.096	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	98	3.39	3.33	0.694	0.682	1.7	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	110	1.57	1.53	0.761	0.743	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	101	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	105	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	100	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	108	2.10	2.06	0.424	0.416	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	83	588 E	571	312 E	303	2.9	70 - 130	25

QA/QC Data

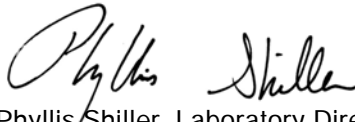
SDG I.D.: GCK04448

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.250	ND	0.90	133	6.34	6.41	1.76	1.78	1.1	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	98	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	101	1.95	1.91	0.475	0.466	NC	70 - 130	25
Hexachlorobutadiene	ND	0.010	ND	0.11	65	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	106	1.62	1.61	0.460	0.457	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	107	312 E	297	127 E	121	4.8	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	101	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	102	2.52	2.56	0.581	0.591	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	103	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	102	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	94	ND	ND	ND	ND	NC	70 - 130	25
Naphthalene	ND	0.050	ND	0.26	65	1.07	1.09	0.204	0.209	NC	70 - 150	25
n-Butylbenzene	ND	0.250	ND	1.37	110	1.95	2.00	0.355	0.365	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	97	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	105	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	103	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	100	0.87	0.83	0.205	0.195	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	101	0.92	1.13	0.312	0.384	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	102	3.69	3.72	0.981	0.988	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	105	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	92	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	103	2.47	2.50	0.459	0.465	1.3	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	103	4.65	4.63	0.828	0.825	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	104	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.010	ND	0.03	111	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	93	%	93	%	96	97	98	97	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	103	%	103	%	100	98	102	98	102	NC	60 - 140	25
% IS-Bromochloromethane	106	%	106	%	103	101	105	101	105	NC	60 - 140	25
% IS-Chlorobenzene-d5	101	%	101	%	108	94	96	94	96	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 December 28, 2021

Tuesday, December 28, 2021

Criteria: MA: Indoor Res

State: MA

## Sample Criteria Exceedances Report

GCK04448 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK04448	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04448	\$AIRMA_TO15	Bromodichloromethane	MA / Vapor Intrusion / Residential	0.025	0.010	0.02	0.02	ppbv
CK04448	\$AIRMA_TO15	Cis-1,2-Dichloroethene	MA / Vapor Intrusion / Residential	0.250	0.100	0.2	0.2	ppbv
CK04448	\$AIRMA_TO15	Tetrachloroethene	MA / Vapor Intrusion / Residential	0.997	0.050	0.21	0.21	ppbv
CK04448	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	1.55	0.025	0.075	0.075	ppbv
CK04448	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04449	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	0.096	0.025	0.075	0.075	ppbv
CK04449	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04449	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04450	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04450	\$AIRMA_TO15	Bromodichloromethane	MA / Vapor Intrusion / Residential	0.032	0.010	0.02	0.02	ppbv
CK04450	\$AIRMA_TO15	Cis-1,2-Dichloroethene	MA / Vapor Intrusion / Residential	0.286	0.100	0.2	0.2	ppbv
CK04450	\$AIRMA_TO15	Tetrachloroethene	MA / Vapor Intrusion / Residential	1.67	0.050	0.21	0.21	ppbv
CK04450	\$AIRMA_TO15	Trichloroethene	MA / Vapor Intrusion / Residential	2.63	0.025	0.075	0.075	ppbv
CK04450	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CK04451	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CK04451	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

December 28, 2021

SDG I.D.: GCK04448

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 355  
Certification Date: 12/15/21 2:07 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_21.D\1214\_21-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-102

SDG ID: GCK04448  
Phoenix ID: CK04448

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 16011  
Certification Date: 12/15/21 2:45 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_22.D\1214\_22-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-103

SDG ID: GCK04448  
Phoenix ID: CK04449

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 28565  
Certification Date: 12/15/21 5:19 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_26.D\1214\_26-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-IA-101

SDG ID: GCK04448  
Phoenix ID: CK04450

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Canister Certification

December 28, 2021

### Sample Information

Matrix: AIR  
Canister Id: 28610  
Certification Date: 12/15/21 10:04 AM  
Data File: H:\AIR2021\CHEM20\12DEC\14\1214\_28.D\1214\_28-20\_AIR\_1214.rr  
Project ID: S3977  
Client ID: SE-AA-101

SDG ID: GCK04448  
Phoenix ID: CK04451

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.5	1,1,1-Trichloroethane	<0.5
1,1,2,2-Tetrachloroethane	<0.02	1,1,2-Trichloroethane	<0.02
1,1-Dichloroethane	<0.15	1,1-Dichloroethene	<0.2
1,2,4-Trichlorobenzene	<0.054	1,2,4-Trimethylbenzene	<0.5
1,2-Dibromoethane(EDB)	<0.02	1,2-Dichlorobenzene	<0.1
1,2-Dichloroethane	<0.02	1,2-dichloropropane	<0.02
1,2-Dichlorotetrafluoroethane	<0.5	1,3,5-Trimethylbenzene	<0.5
1,3-Butadiene	<0.5	1,3-Dichlorobenzene	<0.1
1,4-Dichlorobenzene	<0.08	1,4-Dioxane	<0.13
2-Hexanone(MBK)	<0.5	4-Ethyltoluene	<0.5
4-Isopropyltoluene	<0.5	4-Methyl-2-pentanone(MIBK)	<0.5
Acetone	<0.75	Acrylonitrile	<0.5
Benzene	<0.2	Benzyl chloride	<0.5
Bromodichloromethane	<0.02	Bromoform	<0.15
Bromomethane	<0.14	Carbon Disulfide	<0.5
Carbon Tetrachloride	<0.086	Chlorobenzene	<0.2
Chloroethane	<0.5	Chloroform	<0.2
Chloromethane	<0.5	Cis-1,2-Dichloroethene	<0.2
cis-1,3-Dichloropropene	<0.10	Cyclohexane	<0.5
Dibromochloromethane	<0.02	Dichlorodifluoromethane	<0.5
Ethanol	<0.75	Ethyl acetate	<0.5
Ethylbenzene	<0.5	Heptane	<0.5
Hexachlorobutadiene	<0.02	Hexane	<0.45
Isopropylalcohol	<0.75	Isopropylbenzene	<0.5
m,p-Xylene	<1.0	Methyl Ethyl Ketone	<0.45
Methyl tert-butyl ether(MTBE)	<0.5	Methylene Chloride	<3.0
n-Butylbenzene	<0.5	Naphthalene	<0.10
o-Xylene	<0.5	Propylene	<0.5
sec-Butylbenzene	<0.5	Styrene	<0.2
Tetrachloroethene	<0.10	Tetrahydrofuran	<0.5
Toluene	<0.5	Trans-1,2-Dichloroethene	<0.2
trans-1,3-Dichloropropene	<0.5	Trichloroethene	<0.05
Trichlorofluoromethane	<0.5	Trichlorotrifluoroethane	<0.5
Vinyl Chloride	<0.1		



CHAIN OF CUSTODY RECORD  
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:

Fax #: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Phone #: \_\_\_\_\_

Report to: <b>JEFF D'Arrigo</b>	Project Name: <del>XXXXXXXXXX</del> <b>S3977</b>	Data Format: (Circle) Equis Excel Other: _____
Customer: <b>SAGE ENV.</b>	Invoice to: _____	Requested Deliverable: RCP ASP CAT B
Address: _____	Sampled by: <b>JMB</b>	MCP NJ Deliverables
		Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
04448	SE-IA-102	355	6.0	-30	-10	3263	3.8	8:32	8:32	12/20	-29	-9	X	C	✓		
04449	SE-IA-103	16011	↓	↓	0	7025	↓	8:36	8:36	12/20	-30	-5	X	C	✓		
04450	SE-IA-101	28565	↓	↓	0	2890	↓	8:26	8:26	12/20	-30	-2	X	C	✓		
04451	SE-AA-101	28610	↓	↓	0	3413	↓	8:40	8:40	12/20	-30	-5	X	C	✓		
(4)	6L Ind 24hr																

Relinquished by: _____	Accepted by: _____	Date: 12-22-21	Time: 1000	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
_____	_____	12/22/21	1317	

State Where Samples Collected: <b>RI</b>	Turnaround Time: 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/>	Requested Criteria: TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	(Please Circle) MA: <u>Indoor Air Residential</u> Soil Gas: Residential Ind/Commercial	NJ: Indoor Air Residential Ind/Commercial	NY: Vapor Intrusion	PA: Indoor Air Residential Non-residential	VT: Indoor Air Residential Industrial Sub-slab Residential Industrial
SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION: <b>Achieve Mass DEP Residential Indoor Air Detection Limits</b>							

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Monday, May 01, 2023

Attn: Amy Mulherm  
Sage Environmental Inc.  
301 Friendship Street  
Providence RI 02903

Project ID: 1144 EDDY (S3977)  
SDG ID: GCN91730  
Sample ID#s: CN91730 - CN91736

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

May 01, 2023

SDG I.D.: GCN91730

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Phoenix reporting levels may exceed those referenced in the CAM protocol. Please refer to criteria sheet for comparisons to requested MCP standards.



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

May 01, 2023

SDG I.D.: GCN91730

Project ID: 1144 EDDY (S3977)

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Client Id	Lab Id	Matrix
SE-AA-201	CN91730	AIR
SE-IA-205	CN91731	AIR
SE-IA-202	CN91732	AIR
SE-IA-201	CN91733	AIR
SE-IA-204	CN91734	AIR
SE-IA-203	CN91735	AIR
SE-IA-206	CN91736	AIR



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
 Sage Environmental Inc.  
 301 Friendship Street  
 Providence RI 02903

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: 48 Hour  
 P.O.#:  
 Canister Id: 273

Custody Information

Collected by:  
 Received by: MMN  
 Analyzed by: see "By" below

Date

04/25/23  
 04/26/23

Time

8:30  
 13:38

Project ID: 1144 EDDY (S3977)  
 Client ID: SE-AA-201

Laboratory Data

SDG ID: GCN91730  
 Phoenix ID: CN91730

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.022	0.010	0.09	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	29.6	E 0.375	70.3	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.307	0.100	0.98	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

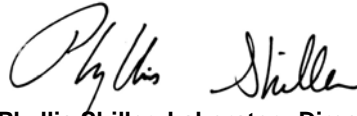
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.062	0.043	0.39	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.614	0.250	1.27	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	0.329	0.250	1.13	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.438	0.250	2.16	1.24	04/27/23	KCA	0.5
Ethanol	22.9	E 0.375	43.1	0.71	04/27/23	KCA	0.5
Ethyl acetate	0.960	0.250	3.46	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	0.263	0.250	1.08	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.740	0.225	2.61	0.79	04/27/23	KCA	0.5
Isopropylalcohol	1.03	0.375	2.53	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.426	0.225	1.26	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.055	0.050	0.29	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	0.907	0.250	3.42	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	102	%	102	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	97	%	97	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	97	%	97	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	96	%	96	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**





**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
 Sage Environmental Inc.  
 301 Friendship Street  
 Providence RI 02903

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: 48 Hour  
 P.O.#:  
 Canister Id: 7304

Custody Information

Collected by:  
 Received by: MMN  
 Analyzed by: see "By" below

Date

04/25/23  
 04/26/23

Time

8:50  
 13:38

Project ID: 1144 EDDY (S3977)  
 Client ID: SE-IA-205

Laboratory Data

SDG ID: GCN91730  
 Phoenix ID: CN91731

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.021	0.010	0.08	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	ND	0.375	ND	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.281	0.100	0.90	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

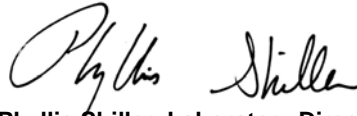
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.064	0.043	0.40	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.582	0.250	1.20	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	0.303	0.250	1.04	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.458	0.250	2.26	1.24	04/27/23	KCA	0.5
Ethanol	4.70	0.375	8.85	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.775	0.225	2.73	0.79	04/27/23	KCA	0.5
Isopropylalcohol	ND	0.375	ND	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	ND	0.500	ND	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.309	0.225	0.91	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.099	0.050	0.52	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	0.086	0.050	0.58	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	1.06	0.250	3.99	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	0.035	0.025	0.19	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	98	%	98	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	96	%	96	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	95	%	95	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
Sage Environmental Inc.  
301 Friendship Street  
Providence RI 02903

Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: 48 Hour  
P.O.#:  
Canister Id: 230

Custody Information

Collected by:  
Received by: MMN  
Analyzed by: see "By" below

Date

04/25/23  
04/26/23

Time

8:20  
13:38

Project ID: 1144 EDDY (S3977)  
Client ID: SE-IA-202

Laboratory Data

SDG ID: GCN91730  
Phoenix ID: CN91732

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.021	0.010	0.08	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	ND	0.375	ND	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.334	0.100	1.07	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

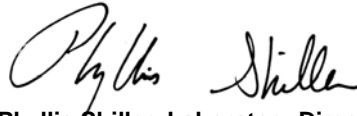
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.069	0.043	0.43	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.608	0.250	1.25	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.419	0.250	2.07	1.24	04/27/23	KCA	0.5
Ethanol	1.19	0.375	2.24	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.907	0.225	3.19	0.79	04/27/23	KCA	0.5
Isopropylalcohol	ND	0.375	ND	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	0.584	0.500	2.53	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.285	0.225	0.84	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	ND	0.050	ND	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	1.39	0.250	5.24	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	ND	0.250	ND	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	99	%	99	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	97	%	97	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	97	%	97	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	95	%	95	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
 Sage Environmental Inc.  
 301 Friendship Street  
 Providence RI 02903

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: 48 Hour  
 P.O.#:  
 Canister Id: 23348

Custody Information

Collected by:  
 Received by: MMN  
 Analyzed by: see "By" below

Date

04/25/23  
 04/26/23

Time

8:05  
 13:38

Project ID: 1144 EDDY (S3977)  
 Client ID: SE-IA-201

Laboratory Data

SDG ID: GCN91730  
 Phoenix ID: CN91733

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	1.09	0.250	5.36	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.023	0.010	0.09	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	0.346	0.250	1.70	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	1.27	0.250	6.24	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	18.9	0.375	44.9	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.340	0.100	1.09	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.069	0.043	0.43	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.639	0.250	1.32	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.483	0.250	2.39	1.24	04/27/23	KCA	0.5
Ethanol	8.13	0.375	15.3	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.861	0.225	3.03	0.79	04/27/23	KCA	0.5
Isopropylalcohol	1.32	0.375	3.24	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	0.608	0.500	2.64	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	2.92	0.225	8.61	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.167	0.050	0.87	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	0.274	0.250	1.19	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	0.249	0.100	1.06	0.43	04/27/23	KCA	0.5
Tetrachloroethene	0.052	0.050	0.35	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	3.25	0.250	9.6	0.74	04/27/23	KCA	0.5
Toluene	1.34	0.250	5.05	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	0.029	0.025	0.16	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	0.252	0.250	1.41	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	100	%	100	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	96	%	96	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	96	%	96	%	04/27/23	KCA	0.5

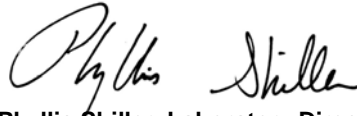


Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
Sage Environmental Inc.  
301 Friendship Street  
Providence RI 02903

Sample Information

Matrix: AIR  
Location Code: SAGE  
Rush Request: 48 Hour  
P.O.#:  
Canister Id: 12864

Custody Information

Collected by:  
Received by: MMN  
Analyzed by: see "By" below

Date

04/25/23  
04/26/23

Time

8:13  
13:38

Project ID: 1144 EDDY (S3977)  
Client ID: SE-IA-204

Laboratory Data

SDG ID: GCN91730  
Phoenix ID: CN91734

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.019	0.010	0.08	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	ND	0.375	ND	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.317	0.100	1.01	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

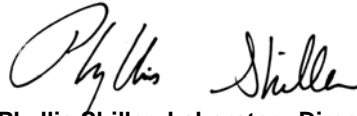
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.069	0.043	0.43	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.621	0.250	1.28	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.489	0.250	2.42	1.24	04/27/23	KCA	0.5
Ethanol	5.98	0.375	11.3	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.884	0.225	3.11	0.79	04/27/23	KCA	0.5
Isopropylalcohol	0.392	0.375	0.96	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	0.588	0.500	2.55	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.296	0.225	0.87	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.074	0.050	0.39	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	1.32	0.250	4.97	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	0.273	0.250	1.53	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	101	%	101	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	95	%	95	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	94	%	94	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

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**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 01, 2023

FOR: Attn: Amy Mulherm  
 Sage Environmental Inc.  
 301 Friendship Street  
 Providence RI 02903

Sample Information

Matrix: AIR  
 Location Code: SAGE  
 Rush Request: 48 Hour  
 P.O.#:  
 Canister Id: 23338

Custody Information

Collected by:  
 Received by: MMN  
 Analyzed by: see "By" below

Date

04/25/23  
 04/26/23

Time

8:12  
 13:38

Project ID: 1144 EDDY (S3977)  
 Client ID: SE-IA-203

Laboratory Data

SDG ID: GCN91730  
 Phoenix ID: CN91735

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b><u>Volatiles TO15</u></b>							
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	04/27/23	KCA	0.5
1,1,1-Trichloroethane	ND	0.250	ND	1.36	04/27/23	KCA	0.5
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	04/27/23	KCA	0.5
1,1,2-Trichloroethane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,1-Dichloroethane	ND	0.075	ND	0.30	04/27/23	KCA	0.5
1,1-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	04/27/23	KCA	0.5
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	04/27/23	KCA	0.5
1,2-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,2-Dichloroethane	0.020	0.010	0.08	0.04	04/27/23	KCA	0.5
1,2-dichloropropane	ND	0.010	ND	0.05	04/27/23	KCA	0.5
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	04/27/23	KCA	0.5
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
1,3-Butadiene	ND	0.250	ND	0.55	04/27/23	KCA	0.5
1,3-Dichlorobenzene	ND	0.050	ND	0.30	04/27/23	KCA	0.5
1,4-Dichlorobenzene	ND	0.040	ND	0.24	04/27/23	KCA	0.5
1,4-Dioxane	ND	0.065	ND	0.23	04/27/23	KCA	0.5
2-Hexanone(MBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
4-Ethyltoluene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
4-Isopropyltoluene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Acetone	12.5	0.375	29.7	0.89	04/27/23	KCA	0.5
Acrylonitrile	ND	0.250	ND	0.54	04/27/23	KCA	0.5
Benzene	0.296	0.100	0.95	0.32	04/27/23	KCA	0.5
Benzyl chloride	ND	0.250	ND	1.29	04/27/23	KCA	0.5

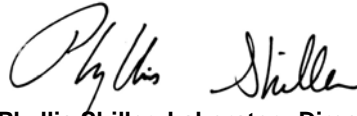
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.067	0.043	0.42	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.588	0.250	1.21	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	0.320	0.250	1.10	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.457	0.250	2.26	1.24	04/27/23	KCA	0.5
Ethanol	6.74	0.375	12.7	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.800	0.225	2.82	0.79	04/27/23	KCA	0.5
Isopropylalcohol	0.814	0.375	2.00	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	0.558	0.500	2.42	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.457	0.225	1.35	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.115	0.050	0.60	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	1.23	0.250	4.63	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	0.258	0.250	1.45	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	100	%	100	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	96	%	96	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	94	%	94	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 01, 2023

FOR: Attn: Amy Mulherm
Sage Environmental Inc.
301 Friendship Street
Providence RI 02903

Sample Information

Matrix: AIR
Location Code: SAGE
Rush Request: 48 Hour
P.O.#:
Canister Id: 28576

Custody Information

Collected by:
Received by: MMN
Analyzed by: see "By" below

Date

04/25/23
04/26/23

Time

8:20
13:38

Project ID: 1144 EDDY (S3977)
Client ID: SE-IA-206

Laboratory Data

SDG ID: GCN91730
Phoenix ID: CN91736

Table with 8 columns: Parameter, ppbv Result, ppbv RL, ug/m3 Result, ug/m3 RL, Date/Time, By, Dilution. Rows include Volatiles TO15 such as 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc.



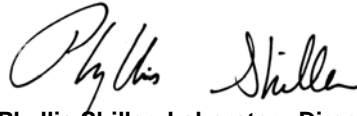
Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.010	ND	0.07	04/27/23	KCA	0.5
Bromoform	ND	0.075	ND	0.77	04/27/23	KCA	0.5
Bromomethane	ND	0.070	ND	0.27	04/27/23	KCA	0.5
Carbon Disulfide	ND	0.250	ND	0.78	04/27/23	KCA	0.5
Carbon Tetrachloride	0.068	0.043	0.43	0.27	04/27/23	KCA	0.5
Chlorobenzene	ND	0.100	ND	0.46	04/27/23	KCA	0.5
Chloroethane	ND	0.250	ND	0.66	04/27/23	KCA	0.5
Chloroform	ND	0.100	ND	0.49	04/27/23	KCA	0.5
Chloromethane	0.621	0.250	1.28	0.52	04/27/23	KCA	0.5
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	04/27/23	KCA	0.5
Cyclohexane	ND	0.250	ND	0.86	04/27/23	KCA	0.5
Dibromochloromethane	ND	0.010	ND	0.09	04/27/23	KCA	0.5
Dichlorodifluoromethane	0.474	0.250	2.34	1.24	04/27/23	KCA	0.5
Ethanol	6.77	0.375	12.7	0.71	04/27/23	KCA	0.5
Ethyl acetate	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Ethylbenzene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Heptane	ND	0.250	ND	1.02	04/27/23	KCA	0.5
Hexachlorobutadiene	ND	0.005	ND	0.05	04/27/23	KCA	0.5
Hexane	0.835	0.225	2.94	0.79	04/27/23	KCA	0.5
Isopropylalcohol	0.592	0.375	1.45	0.92	04/27/23	KCA	0.5
Isopropylbenzene	ND	0.250	ND	1.23	04/27/23	KCA	0.5
m,p-Xylene	0.570	0.500	2.47	2.17	04/27/23	KCA	0.5
Methyl Ethyl Ketone	0.309	0.225	0.91	0.66	04/27/23	KCA	0.5
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	04/27/23	KCA	0.5
Methylene Chloride	ND	1.50	ND	5.21	04/27/23	KCA	0.5
Naphthalene	0.105	0.050	0.55	0.26	04/27/23	KCA	0.5
n-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
o-Xylene	ND	0.250	ND	1.08	04/27/23	KCA	0.5
Propylene	ND	0.250	ND	0.43	04/27/23	KCA	0.5
sec-Butylbenzene	ND	0.250	ND	1.37	04/27/23	KCA	0.5
Styrene	ND	0.100	ND	0.43	04/27/23	KCA	0.5
Tetrachloroethene	ND	0.050	ND	0.34	04/27/23	KCA	0.5
Tetrahydrofuran	ND	0.250	ND	0.74	04/27/23	KCA	0.5
Toluene	1.16	0.250	4.37	0.94	04/27/23	KCA	0.5
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	04/27/23	KCA	0.5
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	04/27/23	KCA	0.5
Trichloroethene	ND	0.025	ND	0.13	04/27/23	KCA	0.5
Trichlorofluoromethane	0.251	0.250	1.41	1.40	04/27/23	KCA	0.5
Trichlorotrifluoroethane	ND	0.250	ND	1.91	04/27/23	KCA	0.5
Vinyl Chloride	ND	0.050	ND	0.13	04/27/23	KCA	0.5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	100	%	100	%	04/27/23	KCA	0.5
% IS-1,4-Difluorobenzene	96	%	96	%	04/27/23	KCA	0.5
% IS-Bromochloromethane	95	%	95	%	04/27/23	KCA	0.5
% IS-Chlorobenzene-d5	95	%	95	%	04/27/23	KCA	0.5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 01, 2023**

**Reviewed and Released by: Ethan Lee, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

## Canister Sampling Information

May 01, 2023

FOR: Attn: Amy Mulherm  
 Sage Environmental Inc.  
 301 Friendship Street  
 Providence RI 02903

Location Code: SAGE

SDG I.D.: GCN91730

Project ID: 1144 EDDY (S3977)

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SE-AA-201	CN91730	273	6.0L	10656	04/14/23	-30	-10	3	3.01	0.3	-30	-11	04/25/23 10:30	04/25/23 08:30
SE-IA-205	CN91731	7304	6.0L	5615	04/14/23	-30	-6	3.11	3.6	14.6	-30	-6	04/25/23 10:23	04/25/23 08:54
SE-IA-202	CN91732	230	6.0L	3258	04/14/23	-30	-10	3.16	3.4	7.3	-30	-12	04/25/23 10:10	04/25/23 08:10
SE-IA-201	CN91733	23348	6.0L	10558	04/20/23	-30	-8	3.16	3.24	2.5	-30	-9	04/25/23 10:06	04/25/23 08:05
SE-IA-204	CN91734	12864	6.0L	3252	04/20/23	-30	-7	3.25	3.21	1.2	-30	-9	04/25/23 10:15	04/25/23 08:13
SE-IA-203	CN91735	23338	6.0L	5648	04/20/23	-30	-7	3.23	3.5	8.0	-29	-7	04/25/23 10:20	04/25/23 08:12
SE-IA-206	CN91736	28576	6.0L	10640	04/20/23	-30	-8	3.05	3.29	7.6	-30	-9	04/25/23 10:35	04/25/23 08:30



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102

# QA/QC Report

May 01, 2023

## QA/QC Data

SDG I.D.: GCN91730

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 675109 (ppbv), QC Sample No: CN91730 (CN91730 (0.5X) , CN91731 (0.5X) , CN91732 (0.5X) , CN91733 (0.5X) , CN91734 (0.5X) , CN91735 (0.5X) , CN91736 (0.5X) )												
<u>Volatiles</u>												
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	110	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	107	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	122	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	112	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	97	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	110	0.09	0.10	0.022	0.024	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	121	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	95	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	116	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	94	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	106	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	112	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	106	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	110	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	111	70.3 E	68.8	29.6 E	29.0	2.0	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	115	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	102	0.98	0.95	0.307	0.298	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	92	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	112	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	100	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	121	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	128	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	103	0.39	0.39	0.062	0.062	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	108	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	107	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	117	1.27	1.29	0.614	0.625	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	106	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	107	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	100	1.13	ND	0.329	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	115	2.16	1.95	0.438	0.394	NC	70 - 130	25

## QA/QC Data

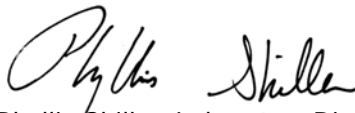
SDG I.D.: GCN91730

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethanol	ND	0.375	ND	0.71	150	43.1 E	42.7	22.9 E	22.7	0.9	70 - 130	25
Ethyl acetate	ND	0.250	ND	0.90	84	3.46	3.40	0.960	0.943	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	101	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	105	1.08	1.03	0.263	0.252	NC	70 - 130	25
Hexachlorobutadiene	ND	0.005	ND	0.05	115	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	103	2.61	2.55	0.740	0.723	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	121	2.53	2.51	1.03	1.02	NC	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	109	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	104	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	109	1.26	1.20	0.426	0.408	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	103	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	121	ND	ND	ND	ND	NC	70 - 130	25
Naphthalene	ND	2.50	ND	13.1	113	ND	ND	ND	ND	NC	70 - 150	
n-Butylbenzene	ND	0.250	ND	1.37	117	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	102	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	106	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	114	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	100	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	99	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	107	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	102	3.42	3.41	0.907	0.906	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	107	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	106	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	104	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	125	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	126	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	118	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101	%	101	%	97	102	97	102	97	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	94	97	97	97	97	NC	60 - 140	25
% IS-Bromochloromethane	100	%	100	%	92	97	98	97	98	NC	60 - 140	25
% IS-Chlorobenzene-d5	99	%	99	%	98	96	95	96	95	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 May 01, 2023

Monday, May 01, 2023

Criteria: MA: CAM, Indoor Res

State: RI

## Sample Criteria Exceedances Report

GCN91730 - SAGE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN91730	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91730	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91731	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91731	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91732	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91732	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91733	\$AIRMA_TO15	Naphthalene	MA / Vapor Intrusion / Residential	0.167	0.050	0.11	0.11	ppbv
CN91733	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91733	\$AIRMA_TO15	1,2-Dichloroethane	MA / Vapor Intrusion / Residential	0.023	0.010	0.022	0.022	ppbv
CN91733	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91734	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91734	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91735	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91735	\$AIRMA_TO15	Naphthalene	MA / Vapor Intrusion / Residential	0.115	0.050	0.11	0.11	ppbv
CN91735	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3
CN91736	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.005	0.001	0.001	ppbv
CN91736	\$AIRMA_TO15	1,2-Dibromoethane(EDB)	MA / Vapor Intrusion / Residential	ND	0.0400	0.0078	0.0078	ug/m3

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

## MassDEP Analytical Protocol Certification Form

**Laboratory Name:** Phoenix Environmental Laboratories, Inc. **Project #:**

**Project Location:** 1144 EDDY (S3977) **RTN:**

**This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]**  
 CN91730, CN91731, CN91732, CN91733, CN91734, CN91735, CN91736

Matrices:  Groundwater/Surface Water  Soil/Sediment  Drinking Water  Air  Other:

**CAM Protocol (check all that apply below)**

8260 VOC CAM II A <input type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	MassDEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	MassDEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	MassDEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input checked="" type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9012 Total Cyanide/PAC CAM V1 A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

**Affirmative responses to questions A through F are required for "Presumptive Certainty" status**

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature*) in the field or laboratory, and prepared/analyzed with method holding times? (* see narrative)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Responses to questions G, H and I below is required for "Presumptive Certainty" status**

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---	---	---

**Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056(2)(k) and WSC-07-350**

H	Were all QC performance standards specified in the CAM protocol(s) achieved? See Section: AIRSIM Narration .	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

*All negative responses must be addressed in an attached laboratory narrative.*

**I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.**

Authorized  
Signature: \_\_\_\_\_

Ethan Lee

Date: Monday, May 01, 2023

Printed Name: Ethan Lee

Position: Project Manager



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## MCP Certification Report

May 01, 2023

SDG I.D.: GCN91730

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### SDG Comments

TO15 Analysis:

The following Vapor Intrusion - Residential Criteria are not achievable: 1,2-Dibromoethane(EDB)

### AIRSIM

Were all QA/QC performance criteria specified in the MADEP document CAM achieved? No.

**QC Batch 675109 (Samples: CN91730, CN91731, CN91732, CN91733, CN91734, CN91735, CN91736): -----**

**The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ethanol)**

#### Instrument:

**CHEM39 04/27/23-1**

Keith Aloisa, Chemist 04/27/23

CN91730 (0.5X, 1X), CN91731 (0.5X), CN91732 (0.5X), CN91733 (0.5X), CN91734 (0.5X), CN91735 (0.5X), CN91736 (0.5X)

Initial Calibration Evaluation (CHEM39/39\_AIR\_0413):

100% of target compounds met criteria.

The following compounds had %RSDs >30%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification #1 (CHEM39/0427\_02-39\_AIR\_0413) (MCP Compliance):

Internal standard areas were within 60 to 140% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Benzyl chloride 33%L (30%)

The following compounds did not meet maximum % deviations: Benzyl chloride 33%L (30%)

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

**Batch 675109 (CN91730)**

CN91730(0.5X), CN91731(0.5X), CN91732(0.5X), CN91733(0.5X), CN91734(0.5X), CN91735(0.5X), CN91736(0.5X)

All LCS recoveries were within 70 - 130 with the following exceptions: Ethanol(150%)

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.





Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

SDG ID: GCN91730

Canister Id: 273

Phoenix ID: CN91730

Certification Date: 04/11/23 5:16 PM

Data File: H:\AIR2023\CHEM20\04APR\10\0411\_08.D\0411\_08-20\_AIR\_0410.rr

Project ID: 1144 EDDY (S3977)

Client ID: SE-AA-201

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

Canister Id: 7304

Certification Date: 04/12/23 2:44 PM

Data File: H:\AIR2023\CHEM20\04APR\10\0412\_06.D\0412\_06-20\_AIR\_0410.rr

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-205

SDG ID: GCN91730

Phoenix ID: CN91731

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

Canister Id: 230

Certification Date: 04/11/23 4:42 PM

Data File: H:\AIR2023\CHEM20\04APR\10\0411\_07.D\0411\_07-20\_AIR\_0410.rr

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-202

SDG ID: GCN91730

Phoenix ID: CN91732

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

Canister Id: 23348

Certification Date: 04/17/23 8:02 PM

Data File: H:\AIR2023\CHEM24\04APR\17\0417\_14.D\0417\_14-24AIR\_0105.r

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-201

SDG ID: GCN91730  
Phoenix ID: CN91733

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

Canister Id: 12864

Certification Date: 04/18/23 5:16 PM

Data File: H:\AIR2023\CHEM24\04APR\18\0418\_06.D\0418\_06-24AIR\_0105.r

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-204

SDG ID: GCN91730  
Phoenix ID: CN91734

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

SDG ID: GCN91730

Canister Id: 23338

Phoenix ID: CN91735

Certification Date: 04/19/23 1:12 PM

Data File: H:\AIR2023\CHEM24\04APR\18\0418\_27.D\0418\_27-24AIR\_0105.r

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-203

Analyte	Result (ppbv)	Analyte	Result (ppbv)
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Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

## Individual Regulator Certification

May 01, 2023

### Sample Information

Matrix: AIR

SDG ID: GCN91730

Canister Id: 28576

Phoenix ID: CN91736

Certification Date: 04/20/23 2:10 PM

Data File: H:\AIR2023\CHEM24\04APR\20\0420\_05.D\0420\_05-24AIR\_0105.r

Project ID: 1144 EDDY (S3977)

Client ID: SE-IA-206

Analyte	Result (ppbv)	Analyte	Result (ppbv)
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107 East Middlebury Street, P.O. Box 170, Manchester, CT 06240  
Telephone: 860-645-1102 • Fax: 860-645-0841

CHAIN OF CUSTODY RECORD

AIR ANALYSES

860-645-1102

email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:

Fax #:

Email:

Phone #:

Report to: Amy Mulhern	Project Name: 1144 Eddy (S3977)	Data Format: (Circle) Equis Excel Other:
Customer: Sage Environmental Inc.	Invoice to:	Requested Deliverable: RCP ASP CAT B
Address: 301 Friendship Street	Sampled by: JAGC	MCP NJ Deliverables
14525 Providence RI 02903	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (Hg)	Incoming Canister Pressure (Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (Hg)	Canister Pressure at End (Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
91730	SE-AA-201	271	6.0L	-30	-10	10656	3	10:30	8:50	8/25	-30	-11					
91731	SE-IA-205	7304	6.0L	-30	-6	5615	3.11	10:23	8:54/25	8/25	-50	-6					
91732	SE-IA-202	230	6.0L	-30	-10	3258	3.16	10:10	8:10/25	8/25	-30	-12					
91733	SE-IA-201	23348	6.0L	-30	-8	10558	3.16	10:06	8:05/25	8/25	-30	-9					
91734	SE-IA-204	12664	6.0L	-30	-7	3252	3.25	10:15	8:14/25	8/25	-30	-9					
91735	SE-IA-203	23338	6.0L	-30	-7	5648	3.23	10:20	8:12/25	8/25	-30	-7					
91736	SE-IA-206	28576	6.0L	-30	-8	10640	3.05	10:25	8:20/25	8/25	-30	-9					

Relinquished by: <i>[Signature]</i>	Accepted by: <i>[Signature]</i>	Date: 4-26-23	Time: 1105	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.
		Date: 4/26	Time: 1338	

State Where Samples Collected: RI	Requested Criteria: (Please Circle) MA NJ NY PA VT
Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> Standard *SURCHARGES MAY APPLY	TAC I/C TAC RES SVVC I/C SVVC RES CWV I/C CWV RES Indoor Air Residential Ind/Commercial Soil Gas Residential Ind/Commercial
SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:  (3) - 6.0L (CAN-CLH) 24 hr (REG-CLH)	Indoor Air Residential Indoor Air Residential Vapor Intrusion Soil Gas Residential Ind/Commercial Indoor Air Residential Indoor Air Residential Non-residential Indoor Air Residential Industrial Sub-slab Residential Industrial



## **APPENDIX K**



April 27, 2023

Patricia Burke, Environmental Scientist  
Rhode Island Department of Environmental Management  
Office of Land Revitalization & Sustainable Material Management  
235 Promenade Street  
Providence, RI 02908

**RE: 1144 Eddy Street  
Plat Map 57 / Lot 291  
Providence, Rhode Island**

Dear Ms. Burke:

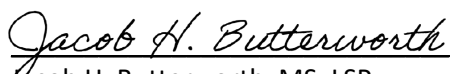
Attached is the Public Notice document notifying abutters of the Site Investigation activities at the above-referenced property. A list of recipients notified via certified mail is provided in the following table.

**Abutting Properties to  
1144 Eddy Street  
Providence, Rhode Island**

Plat/lot	Address	Owner
57/285	1150 Eddy Street	Narragansett Electric Company
57/294	1116 Eddy Street	Triton Terminaling LLC
57/326	1139 Eddy Street	Federal Products Corp
57/325	1147 Eddy Street	Federal Products Corp

In addition, this notice was also shared with State Representative Batista of District 12, State Senator Mack of District 6, and City Councilman Espinal of Ward 10. Should you have any questions, comments or require further information, please contact this office.

Sincerely,  
SAGE Environmental, Inc.

  
Jacob H. Butterworth, MS, LSP  
Vice President

JHB/alm

<b>Plat/lot</b>	<b>Address</b>	<b>Owner</b>	<b>Owner Address</b>
57/285	1150 Eddy Street	Narragansett Electric Company	40 Sylvan Rd, Waltham MA 02451-2286
57/294	1116 Eddy Street	Triton Terminaling LLC	PO Box 4369, Houston TX 77210-4369
57/326	1139 Eddy Street	Federal Products Corp	1144 Eddy Street, Providence, RI 02905
57/325	1147 Eddy Street	Federal Products Corp	1144 Eddy Street, Providence, RI 02905

Notification to Abutters  
Former Federal Products Corp  
1144 Eddy Street  
Plat Map 57, Lot 291  
Providence, Rhode Island

**April 27, 2023**

In accordance with the Rhode Island Department of Environmental Management's (RIDEM's) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations), **1144 Eddy Street LLC** is providing notice to abutters of their intent to conduct a **Site Investigation** at the property addressed as **1144 Eddy Street in Providence, Rhode Island**. The goal of this investigation is to determine if a release of hazardous materials has occurred on the property. The investigation will involve the sampling of environmental media (specifically soil, soil gas, indoor air, and groundwater) by **SAGE Environmental, Inc.** personnel. The property is further designated as Plat Map **57**, Lot **291** of the City of **Providence** Tax Assessor's plat maps. RIDEM has determined that conducting this investigation is in the public interest.

The investigation is scheduled to be conducted in **May 2023** and is expected to take approximately **three to four weeks**. The results of the investigation should be available by **July 2023**.

For more information regarding this notice or this investigation, contact **Patricia Burke** at (401) 222-2797, extension **277-7142** or via email at [Patricia.Burke@dem.ri.gov](mailto:Patricia.Burke@dem.ri.gov). To make arrangements to review Department records pertaining to this property location, contact **Angela Spadoni** at (401) 222-2797, extension **277-7307** or via email at [Angela.Spadoni@dem.ri.gov](mailto:Angela.Spadoni@dem.ri.gov).

Notificación to Abutters  
**Antigua Federal Products Corp**  
**1144 Eddy Street**  
**Mapa de Plat 57, Lote 291**  
**Providence, Rhode Island**

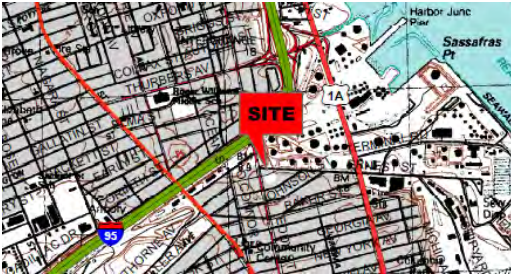
**abril 27, 2023**

De acuerdo con las Reglas y Regulaciones para la Investigación y Remediación de Emisiones de Materiales Peligrosos (las Regulaciones de Remediación) del Departamento de Gestión Ambiental de Rhode Island (RIDEM), 1144 Eddy Street LLC está notificando a los abutters de su intención de realizar una **Investigación del Sitio** en la propiedad dirigida como **1144 Eddy Street en Providence, Rhode Island**. El objetivo de esta investigación es determinar si se ha producido una liberación de materiales peligrosos en la propiedad. La investigación implicará el muestreo de medios ambientales (específicamente suelo, gas del suelo, aire interior y agua subterránea) por **parte de SAGE Environmental, Inc.** personal. La propiedad se designa además como Plat Map **57**, Lot **291** de los mapas de la plataforma del Asesor de Impuestos de la Ciudad de **Providence**. RIDEM ha determinado que llevar a cabo esta investigación es de interés público.

La investigación está programada para mayo de **2023** y se espera que dure aproximadamente **de tres a cuatro semanas**. Los resultados de la investigación deberían estar disponibles para **julio de 2023**.

Para obtener más información sobre este aviso o esta investigación, comuníquese con **Patricia Burke** al (401) 222-2797, extensión 277-7 **142** o por correo electrónico a [Patricia.Burke@dem.ri.gov](mailto:Patricia.Burke@dem.ri.gov). Para hacer arreglos para revisar los registros del Departamento relacionados con la ubicación de esta propiedad, comuníquese con **Angela Spadoni** al (401) 222-2797, extensión 277-7307 o por correo electrónico a [Angela.Spadoni@dem.ri.gov](mailto:Angela.Spadoni@dem.ri.gov).

**Site-Specific Fact Sheet**  
**Former Federal Products Corp**  
**1144 Eddy Street**  
**Plat Map 57, Lot 291**  
**Providence, Rhode Island**



SAGE Environmental, Inc. (SAGE) has prepared the Site-Specific Fact Sheet in accordance with Rule 1.8.7(B)(i) of the Rhode Island Department of Environmental Management (RIDEM) Remediation Regulations.

As part of environmental due diligence, SAGE conducted a LSI to evaluate whether a release to Site soils and/or groundwater had occurred. Additionally, as part of the LSI, vapor intrusion was also evaluated.

Select soil samples were collected from five (5) soil borings and transported under chain-of-custody protocol to a State-certified laboratory for select analysis total petroleum hydrocarbon (TPH) via Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) via EPA Method 8260C, priority pollutant 13 metals via EPA Methods 6010D and 7471B, polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270D and polychlorinated biphenyls (PCBs) via EPA Method 8082A. Samples were collected from varying depths throughout the Site.

On November 22, 2021, SAGE advanced five (5) soil borings. Soil results are as follows:

- Arsenic and benzo(a)pyrene were detected at concentrations above the applicable RIDEM Method 1 Residential Direct Exposure Criteria (R-DEC) and Industrial/Commercial Direct Exposure Criteria (I/C-DEC) in shallow soil samples SE-103 (0' – 2') and SE-104 (0' – 2');
- Beryllium and select PAHs were detected at concentrations above the RIDEM Method 1 R-DEC but below the I/C-DEC in soil samples SE-103 (0' – 2') and SE-104 (0' – 2'); and
- Beryllium was detected at a concentration above the RIDEM Method 1 R-DEC but below the I/C-DEC in soil sample SE-105 (0' – 2').

Three (3) soil borings were completed as groundwater monitoring wells. Impacts to groundwater were not identified.

In November 2021, four (4) soil gas sampling points were installed through the concrete slab of the Site building using a hammer drill. Laboratory analytical results were compared to the Massachusetts Department of Environmental Protection (MassDEP) Vapor Intrusion (VI) Guidance Sub-Slab Soil Gas Screening Values (SSGS) for Residential (R-SSGS) and Commercial/Industrial (C/I-SSGS) settings. The following provides a summary of the analytical detections from the November 22, 2021, sampling event:

- SE-SG-101: 1,1,1-trichloroethane and cis-1,2-dichloroethene (cis-1,2-DCE) were detected at concentrations above the MassDEP R-SSGS. PCE and TCE were detected at concentrations exceeding both the MassDEP R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-102: PCE was detected at a concentration above the MassDEP R-SSGS. TCE was detected at a concentration exceeding both the MassDEP VI R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-103: 1,1,1-trichloroethane, 1,1-dichloroethane and cis-1,2-DCE were detected at concentrations above the MassDEP VI R-SSGS. PCE was detected at a concentration exceeding both the MassDEP VI Guidance for R-SSGS and C/I-SSGS. All other analytes, where detected, were below the applicable standards;
- SE-SG-105: All analytes, where detected, were compliant with MassDEP VI Guidance for residential values for sub-slab soil gas.

SAGE returned to the Site on December 21, 2021, and January 4, 2022, to install seven additional soil borings. Detected analytes were not above applicable RIDEM Method 1 standards. Two (2) of the seven (7) borings were completed as groundwater monitoring wells. Results of sampling of the monitoring wells did not identify analytes above applicable standards.

On December 20, 2021, SAGE deployed three (3) summa canisters within the Site building and one (1) outdoor ambient air summa canister. Indoor air sample SE-IA-101 was collected from the basement located towards the eastern portion of the Site

building and indoor air sample SE-IA-102 was collected from the ground floor located towards the western portion of the Site building. Ambient air sample SE-IA-103 was placed along the western exterior of the Site building. Laboratory analytical results were compared to the MassDEP VI Guidance Threshold Values (TVs) for Residential (R-TVs) and Commercial/Industrial (C/I-TVs) settings. The following provides a summary of the analytical detections from the December 20, 2021, sampling event:

- SE-IA-101: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations above the MassDEP VI Guidance for R-TVs for indoor air;
- SE-IA-102: Bromodichloromethane, cis-1,2-DCE, PCE and TCE were detected at concentrations above the MassDEP VI Guidance for R-TVs for indoor air; and
- SE-IA-103: TCE was detected in the ambient air sample at a concentration above the MassDEP VI Guidance for R-TVs for indoor air.

SAGE evaluated soil, groundwater, sub-slab soil gas and indoor air for potential contaminants of concern. The results of this investigation identified select PAHs within soil in excess of RIDEM Method 1 R-DEC and/or I/C-DEC. Additionally, within soil, arsenic and beryllium were detected above RIDEM Method 1 R-DEC and/or I/C-DEC. Groundwater was evaluated for VOCs, and although detections were found, they are not in excess of applicable GB-GWOs. During the assessment of sub-slab soil gas, detections of select chlorinated VOCs were found toward the easterly end of the Site structure exceeding MassDEP R-SSGS and/or C/I-SSGS. The levels within the soil gas suggested the possibility of elevated VOCs within soil as well as the possibility of vapor intrusion. As such, additional testing of soil beneath the Site structure toward the soil gas detection was performed, and results of the testing did identify various chlorinated VOCs, however, not at levels exceeding RIDEM Method 1 R-DEC or applicable GB-LC. Indoor air testing did detect chlorinated VOCs, namely PCE, TCE, and cis-1,2-DCE exceeding MassDEP R-TVs and/or C/I-TVs.

Should you have any questions, please feel free to contact SAGE Environmental, Inc. at (401) 723-9900 or RIDEM Office of Land Revitalization and Sustainable Materials Management Project Manager Patricia Burke at (401) 222-2797 x 277-7142 or via email at [Patricia.Burke@dem.ri.gov](mailto:Patricia.Burke@dem.ri.gov).

**Hoja informativa específica del sitio**  
**Antigua Federal Products Corp**  
**1144 Eddy Street**  
**Mapa de Plat 57, Lote 291**  
**Providence, Rhode Island**



SAGE Environmental, Inc. (SAGE) ha preparado la Hoja de Datos Específicos del Sitio de acuerdo con la Regla 1.8.7(B)(i) de las Regulaciones de Remediación del Departamento de Gestión Ambiental de Rhode Island (RIDEM).

Como parte de la debida diligencia ambiental, SAGE realizó un LSI para evaluar si se había producido una liberación a los suelos del sitio y / o aguas subterráneas. Además, como parte del LSI, también se evaluó la intrusión de vapor. .

Se recolectaron muestras de suelo seleccionadas de cinco (5) perforaciones del suelo y se transportaron bajo el protocolo de cadena de custodia a un laboratorio certificado por el Estado para el análisis selecto de hidrocarburos totales de petróleo (TPH) a través del Método 8015D de la Agencia de Protección Ambiental (EPA), compuestos orgánicos volátiles (COV) a través del Método 8260C de la EPA, contaminantes prioritarios 13 metales a través de los Métodos 6010D y 7471B de la EPA, hidrocarburos aromáticos policíclicos (HAP) a través del Método 8270D de la EPA y bifenilos policlorados (PCB) a través del Método 8082A de la EPA. Se recogieron muestras de diferentes profundidades en todo el sitio.

El 22 de noviembre de 2021, SAGE avanzó cinco (5) perforaciones del suelo. Los resultados del suelo son los siguientes:

- Se detectaron arsénico y benzo(a)pireno en concentraciones superiores a los criterios de exposición directa residencial (R-DEC) y los criterios de exposición directa industrial/comercial (I/C-DEC) del método 1 aplicables de RIDEM en muestras de suelo poco profundo SE-103 (0' – 2') y SE-104 (0' – 2');
- El berilio y determinados HAP se detectaron en concentraciones superiores al método RIDEM 1 R-DEC, pero por debajo del I/C-DEC en muestras de suelo SE-103 (0' – 2') y SE-104 (0' – 2'); y
- El berilio se detectó a una concentración por encima del Método RIDEM 1 R-DEC pero por debajo del I/C-DEC en la muestra de suelo SE-105 (0' – 2').

Se completaron tres (3) perforaciones del suelo como pozos de monitoreo de aguas subterráneas. No se identificaron impactos en las aguas subterráneas.

En noviembre de 2021, se instalaron cuatro (4) puntos de muestreo de gas del suelo a través de la losa de concreto del edificio del sitio utilizando un taladro de martillo. Los resultados analíticos de laboratorio se compararon con los valores de detección de gases del suelo (SSGS) de la Guía de Intrusión de Vapor (VI) del Departamento de Protección Ambiental de Massachusetts (MassDEP) para entornos residenciales (R-SSGS) y comerciales / industriales (C/I-SSGS). A continuación se proporciona un resumen de las detecciones analíticas del evento de muestreo del 22 de noviembre de 2021:

- SE-SG-101: 1,1,1-tricloroetano y cis-1,2-dicloroetano (cis-1,2-DCE) se detectaron en concentraciones superiores a MassDEP R-SSGS. El PCE y el TCE se detectaron en concentraciones superiores tanto al MassDEP R-SSGS como al C/I-SSGS. Todos los demás analitos, cuando se detectaron, estaban por debajo de las normas aplicables;
- SE-SG-102: Se detectó PCE a una concentración superior al MassDEP R-SSGS. El TCE se detectó a una concentración superior tanto al MassDEP VI R-SSGS como al C/I-SSGS. Todos los demás analitos, cuando se detectaron, estaban por debajo de las normas aplicables;
- SE-SG-103: 1,1,1-tricloroetano, 1,1-dicloroetano y cis-1,2-DCE se detectaron a concentraciones superiores a MassDEP VI R-SSGS. El PCE se detectó a una concentración superior tanto a la guía MassDEP VI para R-SSGS como a C/I-SSGS. Todos los demás analitos, cuando se detectaron, estaban por debajo de las normas aplicables;
- SE-SG-105: Todos los analitos, donde se detectaron, se quejaron con MassDEP VI Guidance for residential values for sub-slab soil gas.

SAGE regresó al sitio el 21 de diciembre de 2021 y el 4 de enero de 2022 para instalar siete perforaciones de suelo adicionales. Los analitos detectados no estaban por encima de los estándares aplicables del Método RIDEM 1. Dos (2) de las siete (7)



perforaciones se completaron como pozos de monitoreo de aguas subterráneas. Los resultados del muestreo de los pozos de monitoreo no identificaron analitos por encima de los estándares aplicables.

El 20 de diciembre de 2021, SAGE desplegó tres (3) recipientes de suma dentro del edificio del sitio y un (1) recipiente de suma de aire ambiente al aire libre. La muestra de aire interior SE-IA-101 se recogió del sótano ubicado hacia la parte oriental del edificio del sitio y la muestra de aire interior SE-IA-102 se recogió de la planta baja ubicada hacia la parte occidental del edificio del sitio. La muestra de aire ambiente SE-IA-103 se colocó a lo largo del exterior occidental del edificio del sitio. Los resultados analíticos de laboratorio se compararon con los valores umbral de orientación (TV) de MassDEP VI para entornos residenciales (R-TV) y comerciales/industriales (C/I-TV). A continuación se proporciona un resumen de las detecciones analíticas del evento de muestreo del 20 de diciembre de 2021:

- SE-IA-101: Se detectaron bromodiclorometano, cis-1,2-DCE, PCE y TCE en concentraciones superiores a la guía MassDEP VI para R-TV para aire interior;
- SE-IA-102: Se detectaron bromodiclorometano, cis-1,2-DCE, PCE y TCE en concentraciones superiores a la Guía MassDEP VI para R-TV para aire interior; y
- SE-IA-103: TCE se detectó en la muestra de aire ambiente a una concentración superior a la guía MassDEP VI para R-TV para aire interior.

SAGE evaluó el suelo, las aguas subterráneas, el gas del suelo sublosa y el aire interior en busca de posibles contaminantes preocupantes. Los resultados de esta investigación identificaron HAP seleccionados dentro del suelo que exceden el Método RIDEM 1 R-DEC y/o I/C-DEC. Además, dentro del suelo, se detectaron arsénico y berilio por encima del Método RIDEM 1 R-DEC y/o I/C-DEC. Se evaluó el agua subterránea para detectar COV y, aunque se encontraron detecciones, no exceden los GB-GWO aplicables. Durante la evaluación del gas del suelo sub-losa, se encontraron detecciones de COV clorados seleccionados hacia el extremo oriental de la estructura del sitio que excedían MassDEP R-SSGS y / o C / I-SSGS. Los niveles dentro del gas del suelo sugirieron la posibilidad de COV elevados dentro del suelo, así como la posibilidad de intrusión de vapor. Como tal, se realizaron pruebas adicionales del suelo debajo de la estructura del sitio para la detección de gases del suelo, y los resultados de las pruebas identificaron varios COV clorados, sin embargo, no a niveles superiores al Método RIDEM 1 R-DEC o GB-LC aplicable. Las pruebas de aire interior detectaron COV clorados, a saber, PCE, TCE y cis-1,2-DCE que exceden los televisores R-TV MassDEP y / o C / I-TV.

Si tiene alguna pregunta, no dude en ponerse en contacto con SAGE Environmental, Inc. al (401) 723-9900 o con la Gerente de Proyectos de la Oficina de Revitalización de Tierras y Gestión de Materiales Sostenibles de RIDEM, Patricia Burke, al (401) 222-2797 x 277-7142 o por correo electrónico a [Patricia.Burke@dem.ri.gov](mailto:Patricia.Burke@dem.ri.gov).

**ENVIRONMENTAL INVESTIGATION – REMEDIATION PROJECT**  
**INVESTIGACIÓN AMBIENTAL – PROYECTO DE REMEDIACIÓN**

**1144 Eddy Street  
Providence, Rhode Island  
Plat Map 57 / Lot 291**

**FOR MORE INFORMATION, CONTACT:  
PARA OBTENER MÁS INFORMACIÓN, CONTACTO:**

Patricia Burke, Environmental Scientist  
RI Department of Environmental Management  
Office of Land Revitalization and Sustainable Materials  
Management  
Site Remediation & Brownfields  
235 Promenade Street  
Providence, RI 02908  
Phone: (401) 222-2797 x 2777142  
Email: Patricia.Burke@dem.ri.gov

Patricia Burke, Científica Ambiental  
Departamento de Gestión Ambiental de RI  
Oficina de Revitalización de Tierras y Gestión Sostenible de  
Materiales  
Remediación del sitio y terrenos industriales abandonados  
235 Promenade Street  
Providence, RI 02908  
Teléfono: (401) 222-2797 x 2777142  
Correo electrónico: Patricia.Burke@dem.ri.gov

**OR**



**SAGE Environmental, Inc.  
301 Friendship Street  
Providence, RI 02903  
401-723-9900  
www.SAGE-Enviro.com**

# The Rhode Island Department of Environmental Management's Site Remediation Program & Environmental Justice

## DEM's SITE REMEDIATION PROGRAM

### WHO WE ARE

The Rhode Island Department of Environmental Management (DEM) is the state agency responsible for preserving the quality of Rhode Island's environment. In 1995, Rhode Island passed the Industrial Property Remediation and Reuse Act (amended in 1997) and established a voluntary program for brownfields cleanup through DEM. This Act created the Office of Land Revitalization & Sustainable Material Management's (LRSMM) Site Remediation Program. The Program encourages and supports the redevelopment and reuse of contaminated properties throughout RI. The Program was established to provide fair, comprehensive, and consistent regulation of the investigation and remediation of hazardous waste, hazardous material, and petroleum releases. The State program is designed to determine if a site poses a threat to human health and the environment and efficiently determine a remedy that is effective but not overly burdensome to the parties involved.

### PROGRAM PURPOSE

The purpose of the Site Remediation Program is to regulate and provide technical oversight for the investigation and remediation of releases of hazardous waste or hazardous material to the environment; to ensure that those investigations and remedial activities are conducted in a consistent manner that adequately protects human health and the environment; and to enforce regulations regarding the proper disposal of abandoned hazardous waste.

### THE PROCESS

Cleaning a contaminated site requires investigation, planning, and action. The Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (<https://rules.sos.ri.gov/regulations/part/250-140-30-1>) define the specific documents that are needed, or may be needed as part of that process:

- Notification of Release
- Site Investigation Work Plan (SIWP)
- Public Notice of Investigation
- Site Investigation Report (SIR)
- Public Notice of Completed Site Investigation & Public Comment Period on Technical Feasibility of Proposed Remedy
- Remedial Action Work Plan (RAWP)
- Remedial Action
- Closure Report
- Environmental Land Usage Restriction (ELUR), if applicable

### FOR MORE INFORMATION, PLEASE CONTACT:

**DEM Contact in Attached Letter**  
RIDEM/OLRSMM – Site Remediation  
235 Promenade Street, Suite 380  
Providence, RI 02908  
Phone: 401-222-2797  
Email: Provided in Letter

OR

Ashley L. Blauvelt, P.E.,  
Environmental Engineer IV  
RIDEM/OLRSMM – Site Remediation  
235 Promenade Street, Suite 380  
Providence, RI 02908  
Phone: 401-222-2797 x 2777126  
Email: [Ashley.blauvelt@dem.ri.gov](mailto:Ashley.blauvelt@dem.ri.gov)

## BROWNFIELDS

### WHAT IS A BROWNFIELD

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

### DETERMING IF A SITE IS A BROWNFIELD OR IS CONTAMINATED

To determine if a site is a brownfield, a Phase I Environmental Site Assessment (ESA) should be conducted. This will determine the history of the property in which one is interested. The Phase I ESA will also determine any Recognized Environmental Concerns (RECs). If RECs are determined, a Phase II ESA, otherwise referred to as a site investigation, will be conducted. The Phase II ESA will determine whether contamination exists at a site.

### TYPES OF CONTAMINANTS

- Metals
- Volatile Organic Compounds (VOCs)
- Semi-VOCs
  - Polycyclic Aromatic Hydrocarbons (PAHs)
- Polychlorinated Biphenyls (PCBs)
- Petroleum Hydrocarbons

### EXAMPLES OF BROWNFIELDS

- Abandoned Mills
- Gasoline & Service Stations
- Manufacturing Companies
- Dry Cleaners
- Print Shops
- Commercial / Strip Malls
  - Hair & Nail Salons
  - Home Improvement / Paint Stores
- Doctor, Dentist, Veterinary Clinic
- Farms & Orchards

### ADVANTAGES TO REDEVELOPING A BROWNFIELD

- Existing infrastructure
- Tax incentives
- Labor concentration
- Improve public health and safety
- Improve air and water quality
- Preserve historical landmarks and heritage architecture
- Beautify urban landscapes
- Reduce neighborhood blight
- Facilitate job growth

### REDEVELOPMENT POSSIBILITIES

- Open Space / Green Space / Athletic Fields
- Affordable Housing
- Industrial/Commercial Space
- Mixed-Use Space
- So much more!

## ENVIRONMENTAL JUSTICE

### HOW IT STARTED

As a result of Rhode Island's industrial history and heritage, many properties in the State have been impacted by past activities. Impacts include environmental contamination by oil and hazardous chemicals that were used in these operations. Many of the impacted sites are in the urban centers of the State. In many cases, low income and minority populations live in the communities around the sites. These populations have been subject to many historical inequities. Addressing these inequities and providing a fair, effective process for future involvement in site remediation projects is a main premise of environmental justice.

### WHAT IS ENVIRONMENTAL JUSTICE (EJ)

EJ is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

### WHAT IS AN EJ AREA

EJ focus areas are defined as United States Census block groups that are in the highest fifteen percent (15%) of all Census block groups in RI with respect to the percent population identified as racial minorities or the highest fifteen percent (15%) of RI census block groups with respect to percent population with income identified as being twice the federal poverty level or below (utilizing the most recent and readily available data from the United States Census).

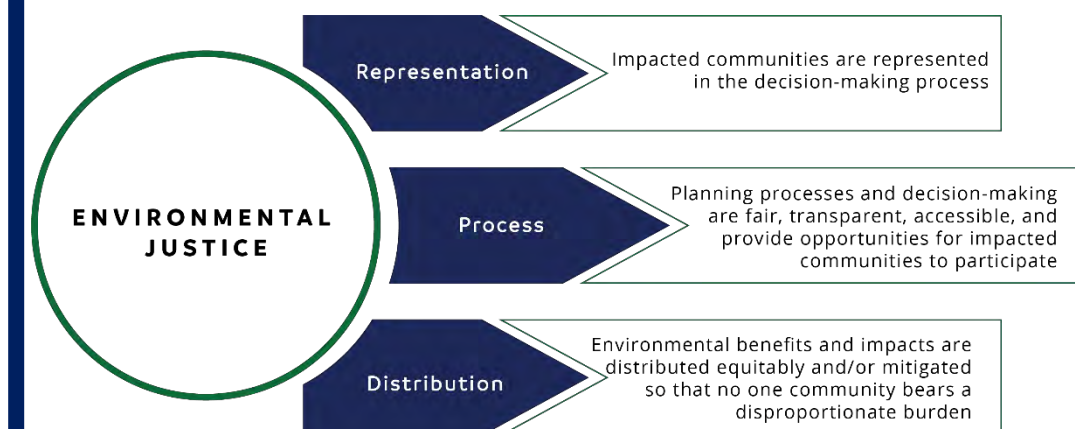
### IS MY PROPERTY IN AN EJ AREA

Check out DEM's ArcGIS map:

<https://ridemgis.maps.arcgis.com/apps/webappviewer/index.html?id=87e104c8adb449eb9f905e5f18020de5>

### HOW DEM ADDRESSES EJ

Reference RIGL §23-19.14-5 to learn more about environmental equity and public participation.





# El Programa de Rehabilitación de Terrenos y Justicia Ambiental del Departamento de Gestión Ambiental de Rhode Island

## PROGRAMA DE REHABILITACIÓN DE TERRENOS DEL DEM

### QUIÉNES SOMOS

El Departamento de Gestión Ambiental de Rhode Island (DEM) es la agencia estatal responsable de preservar la calidad del medio ambiente de Rhode Island. En 1995, Rhode Island aprobó la Ley de Rehabilitación y Reutilización de la Propiedad Industrial (modificada en 1997) y estableció un programa voluntario de limpieza de terrenos edificadas abandonados a través del DEM. Esta ley creó el Programa de Rehabilitación de Terrenos de la Oficina de Revitalización del Suelo y Gestión de Materiales Sostenibles (LRSMM). El programa fomenta y apoya la reutilización de propiedades contaminadas en todo RI. El Programa se estableció para proporcionar una regulación justa, exhaustiva y coherente de la investigación y rehabilitación de residuos peligrosos, materiales peligrosos y emisiones de petróleo. El programa estatal está diseñado para determinar si un sitio representa una amenaza para la salud humana y el medio ambiente, y para identificar una solución que sea eficaz pero que no sea excesivamente costosa para las partes involucradas.

### OBJETIVO DEL PROGRAMA

El objetivo del Programa de Rehabilitación de Terrenos es regular y proporcionar supervisión técnica para la investigación y la rehabilitación de las liberaciones de residuos peligrosos o materiales peligrosos en el medio ambiente; asegurar que esas investigaciones y actividades de rehabilitación se lleven a cabo de una manera uniforme que proteja adecuadamente la salud humana y el medio ambiente; y hacer cumplir los reglamentos relativos a la eliminación adecuada de los residuos peligrosos abandonados.

### EL PROCESO

La limpieza de un terreno contaminado requiere investigación, planificación y acción. Las normas y reglamentos para la investigación y rehabilitación de vertidos de materiales peligrosos (<https://rules.sos.ri.gov/regulations/part/250-140-30-1>) definen los documentos específicos que se necesitan o pueden necesitarse como parte de ese proceso:

- Notificación de divulgación
- Plan de trabajo de investigación del sitio (SIWP)
- Aviso público de la investigación
- Informe de investigación del sitio (SIR)
- Aviso público sobre la finalización de la investigación del terreno y período de comentarios públicos sobre la viabilidad técnica de la solución propuesta
- Plan de trabajo de la acción de rehabilitación (RAWP)
- Acción de rehabilitación
- Informe de finalización
- Restricción del uso del suelo para fines ambientales (ELUR), si corresponde

### PARA OBTENER MAS INFORMACION, COMUNIQUESE CON:

#### Contacto del DEM en la carta adjunta

RIDEM/OLRSMM – Rehabilitación de sitios  
 235 Promenade Street, Suite 380  
 Providence, RI 02908  
 Teléfono: 401-222-2797  
 Correo electrónico: Proporcionado en la carta

O BIEN

Ashley L. Blauvelt, P.E.,  
 Ingeniera Ambiental IV RIDEM/OLRSMM –  
 Rehabilitación de terrenos 235 Promenade  
 Street, Suite 380  
 Providence, RI 02908  
 Teléfono: 401-222-2797 x 2777126  
 Correo electrónico:  
[Ashley.blauvelt@dem.ri.gov](mailto:Ashley.blauvelt@dem.ri.gov)

## PROGRAMAS DE REHABILITACIÓN DE TERRENOS DEL DEM

### QUÉ ES UN TERRENO EDIFICADO ABANDONADO

Los terrenos edificadas abandonados son bienes inmuebles cuya ampliación, rehabilitación o reutilización puede complicarse por la presencia o posible presencia de una sustancia peligrosa o un material contaminante.

### CÓMO DETERMINAR SI UN SITIO ES UN TERRENO EDIFICADO ABANDONADO O SI ESTÁ CONTAMINADO

Para determinar si un sitio es un terreno edificadas abandonado, se debe realizar una Evaluación Ambiental del Sitio (ESA) de Fase I. Esto determinará la historia de la propiedad en la que se está interesado. La fase I de la ESA también determinará cualquier problema ambiental reconocido (REC). Si se determina la presencia de un REC, se llevará a cabo una ESA de fase II, también conocida como investigación del sitio. La fase II de la ESA determinará si el sitio está contaminado.

### TIPOS DE CONTAMINANTES

- Metales
- Bifenilos policlorados (PCB)
- Compuestos orgánicos volátiles (VOC)
- Hidrocarburos de petróleo
- Semi-VOC
  - Hidrocarburos aromáticos policíclicos (PAH)

### EJEMPLOS DE TERRENOS EDIFICADOS ABANDONADOS

- Molinos abandonados
- Centros comerciales
- Gasolineras y estaciones de servicio
- Salones de peluquería y manicura
- Fábricas
- Tiendas de pintura y ferreterías
- Tintorerías
- Clínicas médicas, dentales y veterinarias
- Imprentas
- Granjas y huertos

### VENTAJAS DE LA REURBANIZACIÓN DE UN TERRENO EDIFICADO ABANDONADO

- Infraestructura existente
- Incentivos fiscales
- Concentración de mano de obra
- Mejora de la salud y la seguridad públicas
- Mejora de la calidad del aire y del agua
- Preservación de los monumentos históricos y de la arquitectura patrimonial
- Embellecimiento de los paisajes urbanos
- Reducción del deterioro de los vecindarios
- Fomento del crecimiento del empleo

### POSIBILIDADES DE REURBANIZACIÓN

- Espacios abiertos/espacios verdes/campos de deporte
- Viviendas asequibles
- Espacio industrial/comercial
- Espacio de uso mixto
- Y mucho más

## JUSTICIA AMBIENTAL

### DE QUÉ MANERA SE COMENZÓ

Como resultado de la historia y el patrimonio industrial de Rhode Island, muchas propiedades del estado han sido impactadas por actividades pasadas. Los impactos incluyen la contaminación ambiental por petróleo y productos químicos peligrosos que se utilizaron en estas operaciones. Muchos de los sitios afectados se encuentran en los centros urbanos del Estado. En muchos casos, hay comunidades de bajos ingresos y grupos marginados que viven alrededor de estos sitios. Estas poblaciones han sufrido muchas desigualdades históricas. Una de las principales premisas de la justicia ambiental es abordar estas desigualdades y ofrecer un proceso justo y eficaz para la futura participación en los proyectos de rehabilitación de sitios.

### QUÉ ES LA JUSTICIA AMBIENTAL (EJ)

La justicia ambiental es el trato justo y la participación significativa de todas las personas, independientemente de su raza, color, origen nacional o ingresos, con respecto al desarrollo, la aplicación y el cumplimiento de las leyes, reglamentos y políticas ambientales.

### QUÉ ES UN ÁREA DE JUSTICIA AMBIENTAL

Las áreas de enfoque de justicia ambiental se definen como grupos de bloques del censo de los Estados Unidos que se encuentran en el quince por ciento (15%) más alto de todos los grupos de bloques del censo de RI con respecto al porcentaje de población identificada como minorías raciales o el quince por ciento (15%) más alto de los grupos de bloques del censo de RI con respecto al porcentaje de población con ingresos identificados como el doble del nivel federal de pobreza o por debajo de este (utilizando los datos más recientes y disponibles del censo de los Estados Unidos).

### ¿ESTÁ MI PROPIEDAD EN UN ÁREA DE JUSTICIA AMBIENTAL?

Consulte el mapa ArcGIS del DEM:

<https://ridemgis.maps.arcgis.com/apps/webappviewer/index.html?id=87e104c8adb449eb9f905e5f18020de5>

### CÓMO EL DEM ABORDA LA JUSTICIA AMBIENTAL

Consulte la Ley General de Rhode Island (RIGL) §23-19.14-5 para obtener más información sobre la equidad ambiental y la participación pública.





April 27, 2023

Narragansett Electric Company  
40 Sylvan Road  
Waltham MA 02451-2286

**RE:   *Site Investigation Activities***  
***1144 Eddy Street***  
***Plat Map 57 / Lot 291***  
***Providence, Rhode Island***  
***SAGE Project No. S3977***

Dear Property Owner:

The attached Public Notice is being provided to inform you that Site Investigation activities at the referenced property will commence. This property neighbors your property, located at 1150 Eddy Street in Providence, Rhode Island.

Should you have any questions or comments concerning this correspondence, please do not hesitate to contact this office at (401) 723-9900 or the designated contact at the Rhode Island Department of Environmental Management, Office of Land Revitalization & Sustainable Materials Management, stipulated in the Notice.

Sincerely,  
SAGE Environmental, Inc.

*Jacob H. Butterworth*

---

Jacob H. Butterworth, MS, LSP  
Vice President

Attachment



April 27, 2023

Triton Terminaling LLC  
PO Box 4369  
Houston TX 77210-4369

**RE: *Site Investigation Activities***  
***1144 Eddy Street***  
***Plat Map 57 / Lot 291***  
***Providence, Rhode Island***  
***SAGE Project No. S3977***

Dear Property Owner:

The attached Public Notice is being provided to inform you that Site Investigation activities at the referenced property will commence. This property neighbors your property, located at 1116 Eddy Street in Providence, Rhode Island.

Should you have any questions or comments concerning this correspondence, please do not hesitate to contact this office at (401) 723-9900 or the designated contact at the Rhode Island Department of Environmental Management, Office of Land Revitalization & Sustainable Materials Management, stipulated in the Notice.

Sincerely,  
SAGE Environmental, Inc.

  
\_\_\_\_\_

Jacob H. Butterworth, MS, LSP  
Vice President

Attachment



April 27, 2023

Federal Products Corp  
1144 Eddy Street  
Providence, RI 02905

**RE:    *Site Investigation Activities***  
      ***1144 Eddy Street***  
      ***Plat Map 57 / Lot 291***  
      ***Providence, Rhode Island***  
      ***SAGE Project No. S3977***

Dear Property Owner:

The attached Public Notice is being provided to inform you that Site Investigation activities at the referenced property will commence. This property neighbors your properties, located at 1139 & 1147 Eddy Street in Providence, Rhode Island.

Should you have any questions or comments concerning this correspondence, please do not hesitate to contact this office at (401) 723-9900 or the designated contact at the Rhode Island Department of Environmental Management, Office of Land Revitalization & Sustainable Materials Management, stipulated in the Notice.

Sincerely,  
SAGE Environmental, Inc.

*Jacob H. Butterworth*

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Jacob H. Butterworth, MS, LSP  
Vice President

Attachment



April 27, 2023

Representative José F. Batista  
D - District 12  
205 Massachusetts Avenue  
Providence, RI 02905

**RE:    *Site Investigation Activities***  
          ***1144 Eddy Street***  
          ***Plat Map 57 / Lot 291***  
          ***Providence, Rhode Island***  
          ***SAGE Project No. S3977***

Dear Property Owner:

The attached Public Notice is being provided to inform you that Site Investigation activities at the referenced property will commence.

Should you have any questions or comments concerning this correspondence, please do not hesitate to contact this office at (401) 723-9900 or the designated contact at the Rhode Island Department of Environmental Management, Office of Land Revitalization & Sustainable Materials Management, stipulated in the Notice.

Sincerely,  
SAGE Environmental, Inc.

A handwritten signature in black ink that reads "Jacob H. Butterworth". The signature is written in a cursive style and is positioned above a horizontal line.

Jacob H. Butterworth, MS, LSP  
Vice President

Attachment





April 27, 2023

Senator Tiara Mack  
D - District 6  
82 Smith Street, Room 333  
Providence, RI 02903

**RE:    *Site Investigation Activities***  
***1144 Eddy Street***  
***Plat Map 57 / Lot 291***  
***Providence, Rhode Island***  
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Sincerely,  
SAGE Environmental, Inc.

*Jacob H. Butterworth*

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Jacob H. Butterworth, MS, LSP  
Vice President

Attachment



April 27, 2023

City Councilman Pedro Espinal  
Ward 10  
25 Dorrance Street, Room 310  
Providence, RI 02903

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