



GROUNDWATER AND LANDFILL GAS MONITORING REPORT #32

**FORMER PORTSMOUTH LANDFILL
PORTSMOUTH, RHODE ISLAND 02871
ATLAS PROJECT NO.: 3010000351**

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1.0 INTRODUCTION

Atlas Technical Consultants LLC (Atlas) was retained by AP Enterprise LLC to conduct quarterly groundwater monitoring and landfill gas monitoring at the former Portsmouth Landfill located on Park Avenue in Portsmouth, Rhode Island (Site). The objective of this work is to implement the Rhode Island Department of Environmental Management (RIDEM) approved Site Monitoring Plan and Second Phase of Site Monitoring Plan prepared by Tim O'Connor & Company LLC.

1.1 Site Location and Description

The entrance to the former Portsmouth Landfill is located 500 feet west-northwest of the intersection formed by Boyds Lane and Park Avenue. The property is identified by the Portsmouth Tax Assessor as Plat 20 Lots 1, 2 & 13 and Plat 25 Lot 2 (the Site). The Site encompasses approximately 15.02 acres. The ground surface of the central portion of the landfill is generally level, and slopes downward along the landfill margins. A Site Locus Map and a Site Plan are included as **Figures 1 and 2**, respectively.

1.2 Background

The following activities were conducted to evaluate the potential presence of contamination in soil gas and groundwater resulting from historic landfill activities.

On April 25, 2017, groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4 were completed at the Site. As outlined in Second Phase of Site Monitoring Plan, approved by RIDEM, Atlas installed four (4) additional groundwater monitoring wells on November 11, 2021 (MW-5, MW-6, MW-7 and MW-8). Groundwater monitoring wells were advanced depths of 10 to 18 feet below ground surface and were constructed using two-inch diameter, polyvinyl chloride (PVC) riser and machine-slotted 0.01 inch well screen. The well screen was placed to intercept the groundwater table. Groundwater was encountered at depths of 5 to 12 feet below grade. Soils consisted of fill and stratified sands. Groundwater monitoring well locations are depicted on **Figure 2**.

Four (4) permanent soil gas points (SGPs) (SG-1, SG-2, SG-3 and SG-4) were installed on April 25, 2017. At the request of RIDEM, On April 13, 2018, Atlas installed seven (7) additional perimeter SGPs (SG-3A, SG-3B, SG-3C, SG-3D, SG-3E, SG-3F and SG-3G), located every 50 feet along the edge of the Site boundary near SG-3. SG-3 had concentrations of methane exceeding the lower explosive limit (LEL) of 5% and the RIDEM limit of 25% of the LEL (1.25%). As outlined in the Second Phase of Site Monitoring Plan, approved by RIDEM, on November 11, 2021 Atlas installed four (4) additional SGP's (SG-5, SG-6, SG-7 and SG-8) along the Site boundary. All of the SGPs were installed in the unsaturated zone, using a Geoprobe® 21" stainless soil gas implant. The depth of placement was determined by the existing depth to groundwater at each location, which ranged from approximately 4 to 12 feet below grade.

All of the peripheral SGPs are positioned to monitor for potential landfill gas migration from the solid waste mound. SGP locations are shown on **Figure 2**.

2.0 FIELD ACTIVITIES

The following activities were conducted to evaluate the potential presence of contamination in soil gas and groundwater resulting from historic landfill activities.

2.1 Monitoring Well Gauging and Area Groundwater Flow

On April 8 and 17, 2025, Atlas gauged the depth to groundwater in the eight (8) on Site groundwater monitoring wells using an electronic oil/water interface probe. Depth to groundwater was measured from the top of the PVC well risers and ranged from 6.43 feet below top of casing in MW-1 to 14.62 feet below top of casing in MW-8. Non-aqueous phase liquids were not detected on the groundwater surface, or at the bottom of the wells. A Water Level Gauging Sheet is provided as **Table 1**.

On June 15, 2017, DiPrete Engineering completed a well elevation survey of wells MW-1 through MW-4. These monitoring wells were surveyed with reference to mean seal level.

2.2 Groundwater Sampling and Analysis

On April 8 and 17, 2025, Atlas completed quarterly groundwater sampling at the Site. The groundwater samples were obtained using low stress purging. Atlas used a variable speed low-flow peristaltic pump to control the rate of purging and limit the drawdown. High density polyethylene (HDPE) tubing was used at each well. Field parameters were recorded during sampling using a YSI Pro Series with flow-through cell. Field parameters included pH, water temperature, specific conductance, oxidation reduction potential (ORP), dissolved oxygen and turbidity. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8 for the analysis volatile organic compounds (VOCs) by US Environmental Protection Agency (EPA) Method 8260 and total metals by EPA Methods 6010 and 7010.

The groundwater samples were contained in laboratory grade pre-preserved sample containers, placed in a cooler on ice and submitted under chain of custody to Eurofins Environmental Testing New England (Eurofins) of North Kingstown, Rhode Island, a Rhode Island certified laboratory.

2.3 Groundwater Analytical Results

No metals were reported in excess of the RIDEM GA Groundwater Objectives.

Vinyl chloride was detected in MW-8 at a concentration (0.0045 mg/L) exceeding the RIDEM GA Groundwater Objective of 0.002 mg/L. No other VOCs were reported in excess of the RIDEM GA Groundwater Objectives in the groundwater samples obtained on April 8 and 17 2025, 2025.

The method detection limit for thallium (0.004 mg/L) is reported by the laboratory above the RIDEM GA Groundwater objective of 0.002 mg/L.

The groundwater analytical data is summarized on **Table 2**. The laboratory analytical report is included in **Appendix A**.

2.4 Soil Gas Monitoring

On April 11, 2025, Atlas conducted the thirty second quarterly round of landfill gas monitoring. Soil gas concentrations of methane, hydrogen sulfide, oxygen and carbon dioxide were measured at the monitoring points using a Landtech Gem 5000 Landfill Gas Analyzer and a QRAE II Gas Analyzer. Additionally, ambient temperature, barometric pressure, wind speed and wind direction were

measured and recorded. SGPs are depicted on **Figure 2**. The soil gas monitoring readings are summarized on **Table 3**.

Methane was detected in SG-3 at a concentration of 6.7%, and in SG-8 at a concentration of 6.3% exceeding methane's lower explosive limit (LEL) of 5%. The measured methane concentrations in SG-3 and SG-8 exceed the RIDEM Solid Waste Regulation No. 2, Section 2.3.08 (d), of 25% of the LEL (1.25%) at the Site boundary. All of the other monitoring points measured were non-detect for methane.

Hydrogen sulfide was detected in SG-3 at a concentration of 20%. All of the other monitoring points measured were non-detect for hydrogen sulfide.

Carbon dioxide concentrations ranged from non-detected to a maximum of 11.5% at SG-3. Oxygen concentrations ranged from atmospheric (approximately 21.6%) down to 0.1% at SG-3. The soil gas monitoring results are summarized in **Table 3**.

3.0 CONCLUSIONS

Atlas performed the thirty second quarterly groundwater and landfill gas monitoring on April 8, 11 and 17, 2025, at the former Portsmouth town landfill on Park Avenue in Portsmouth, Rhode Island. Based upon the scope of work and sampling activities completed, Atlas concludes the following:

- No metals were reported in excess of the RIDEM GA Groundwater Objectives.
- The concentration of vinyl chloride in MW-8 was detected above the RIDEM GA Groundwater Objectives. No other VOCs were reported in excess of the RIDEM GA Groundwater Objectives.
- Methane was detected in soil gas monitoring points SG-3 (6.7%) and SG-8 (6.3%) above methane's LEL of 5%. These concentrations exceed the RIDEM Solid Waste Regulation No. 2, Section 2.3.08 (d), of 25% of the LEL (1.25%). In Atlas' opinion, current conditions do not constitute a threat of harm to human health. However, soil gas conditions should continue to be closely monitored due to the observed methane concentrations. Methane was not detected in any of the other SGPs.
- Hydrogen sulfide was detected in SG-3 at a concentration of 20%.
- Carbon dioxide concentrations ranged from non-detected to a maximum of 14.5% at SG-3. Oxygen concentrations ranged from atmospheric (approximately 22.5%) down to 0.2% at SG-3.

4.0 RECOMMENDATIONS

- The next quarterly monitoring event is scheduled for July 2025.

TABLES



WATER LEVEL MEASUREMENTS

| | | | |
|--------------------|--------------------------------|----------------------|----------------------|
| Location: | Portsmouth Landfill, Park Ave. | Atlas Proj. # | 3010000351 |
| Client: | AP Enterprise LLC | Date: | 4/8/2025 & 4/17/2025 |
| Instrument: | Solinst Interface Probe | Gauged By: | MH |
| Checked By: | AK | | |

| WELL # | M.P. ELEVATIONS | DEPTH TO PRODUCT | DEPTH TO WATER | PRODUCT THICKNESS | EQUIVALENT HD ELEV. |
|--------|--------------------|---------------------|-------------------|----------------------|------------------------|
| MW-1 | 8.84 | --- | 6.43 | 0.00 | 2.41 |
| MW-2 | 16.25 | --- | 13.62 | 0.00 | 2.63 |
| MW-3 | 16.40 | --- | 13.86 | 0.00 | 2.54 |
| MW-4 | 14.09 | --- | 11.68 | 0.00 | 2.41 |
| MW-5 | | --- | 7.22 | 0.00 | |
| MW-6 | | --- | 12.45 | 0.00 | |
| MW-7 | | --- | 12.47 | 0.00 | |
| MW-8 | | --- | 14.62 | 0.00 | |

NOTES:

Height of PVC; MW-1: 3.21, MW-2: 4.01, MW-3: 3.27, MW-4: 2.97

Survey (MW-1 - MW-4) completed by DiPrete Engineering (6/15/17)

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|---------------------------------|------------|--------------|--------------|--------------|--------------|---------------|------------|------------|------------|------------|------------|------------|-------------|------------|--------------|-------------|--------------------|---------------------|-------------|---------------|--------------|-------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEM GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| MW-1 | 5/31/2017 | ND (0.025) | ND (0.002) | 0.062 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.002) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 9/8/2017 | ND (0.002) | ND (0.002) | 0.068 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.002) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 12/21/2017 | ND (0.002) | ND (0.002) | 0.101 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.034 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 4/13/2018 | ND (0.0005) | ND (0.0005) | 0.050 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 7/31/2018 | ND (0.0005) | ND (0.010) | 0.060 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.031 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/30/2018 | ND (0.001) | 0.003 | 0.135 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.010) | 0.137 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/9/2019 | ND (0.002) | ND (0.002) | 0.059 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 4/12/2019 | ND (0.001) | ND (0.002) | 0.051 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 7/29/2019 | ND (0.001) | ND (0.002) | 0.085 | ND (0.0005) | 0.0032 | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.036 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/30/2019 | ND (0.001) | ND (0.002) | 0.088 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.001) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 1/15/2020 | ND (0.010) | ND (0.025) | ND (0.25) | ND (0.0005) | ND (0.025) | ND (0.010) | ND (0.010) | ND (0.1) | ND (0.25) | ND (0.025) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 4/23/2020 | ND (0.001) | ND (0.002) | 0.115 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 7/30/2020 | ND (0.001) | ND (0.002) | 0.134 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.040 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/19/2020 | ND (0.001) | ND (0.002) | 0.155 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.057 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/5/2021 | ND (0.001) | ND (0.002) | 0.105 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.001) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 4/7/2021 | ND (0.001) | ND (0.002) | 0.123 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 7/27/2021 | ND (0.001) | ND (0.002) | 0.155 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | 0.036 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/19/2021 | ND (0.002) | ND (0.002) | 0.203 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | 0.027 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/19/2022 | ND (0.002) | ND (0.002) | 0.175 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.01 | | | | | | | | | | | | | | | | | | | | | |

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|----------------------------------|------------|-------------|--------------|--------------|-------------|-------------|------------|------------|------------|--------------|------------|------------|------------|-------------|--------------|--------------|--------------------|---------------------|-------------|---------------|--------------|-------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEML GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| | 5/31/2017 | ND (0.025) | ND (0.002) | 0.084 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.005 | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.044 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 9/8/2017 | ND (0.002) | ND (0.002) | 0.177 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | (ND 0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0034 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 12/21/2017 | ND (0.002) | ND (0.002) | 0.187 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.014 | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.089 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/13/2018 | ND (0.0005) | ND (0.010) | 0.094 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.017 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.051 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/31/2018 | ND (0.0005) | ND (0.002) | 0.119 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.060 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0012 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/30/2018 | ND (0.001) | ND (0.002) | 0.141 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.011 | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.051 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/9/2019 | ND (0.002) | 0.003 | 0.070 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 4/12/2019 | ND (0.001) | ND (0.002) | 0.069 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.015 | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.071 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/29/2019 | ND (0.001) | ND (0.002) | 0.088 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.01) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.010) | 0.041 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/30/2019 | ND (0.001) | 0.003 | 0.082 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.01) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.010) | 0.076 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0014 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/15/2020 | ND (0.001) | 0.004 | 0.083 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.052 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/23/2020 | ND (0.001) | 0.003 | 0.074 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.025 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 7/30/2020 | ND (0.001) | ND (0.002) | 0.096 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.025 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0138 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/19/2020 | ND (0.001) | ND (0.002) | 0.115 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.012 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0283 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/5/2021 | ND (0.001) | 0.008 | 0.105 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.01) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.231 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0283 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/7/2021 | ND (0.001) | 0.004 | 0.064 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | 0.041 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/27/2021 | ND (0.001) | 0.003 | 0.078 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.071 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.045 | ND (0.0010)</ | | | | | |

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|---------------------------------|------------|-------------|--------------|---------------|---------------|---------------|------------|--------------|------------|--------------|--------------|------------|------------|--------------|--------------|---------------|--------------------|---------------------|---------------|---------------|---------------|---------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEM GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| MW-3 | 5/31/2017 | ND (0.025) | ND (0.002) | 0.681 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.002) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 0.035 | ND (0.0010) | 0.0011 | ND (0.0010) | 0.0040 | ND (0.0020) | ND (0.0010) | ND (0.0020) | 0.0011 | 0.0240 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 9/8/2017 | ND (0.002) | ND (0.002) | 0.606 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.027) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 12/21/2017 | ND (0.002) | ND (0.002) | 1.01 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.025 | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.0010) | ND (0.010) | ND (0.025) | ND (0.0010) | 0.0010 | ND (0.0010) | 0.0029 | ND (0.0020) | ND (0.0010) | ND (0.0010) | 0.0073 | 0.0017 | 0.0191 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) |
| | 4/13/2018 | ND (0.0005) | ND (0.006) | 0.460 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | 0.012 | ND (0.0010) | 0.0082 | ND (0.0020) | ND (0.0010) | ND (0.0010) | 0.0051 | ND (0.0010) | 0.0117 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/31/2018 | ND (0.0005) | ND (0.010) | 0.654 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | 0.0036 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/30/2018 | ND (0.001) | ND (0.002) | 0.607 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.010) | ND (0.027) | ND (0.0010) | ND (0.0010) | 0.0024 | ND (0.0020) | ND (0.0010) | ND (0.0020) | 0.0012 | 0.0020 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/9/2019 | ND (0.002) | ND (0.002) | 0.519 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.0010) | 0.0013 | ND (0.0020) | ND (0.0010) | ND (0.0010) | 0.0068 | ND (0.0010) | 0.0050 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 4/12/2019 | ND (0.001) | ND (0.002) | 0.506 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | 0.016 | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | ND (0.025) | ND (0.0010) | ND (0.0010) | 0.0044 | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0013 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 7/29/2019 | ND (0.001) | ND (0.002) | 0.482 | ND (0.0005) | 0.0027 | ND (0.010) | ND (0.010) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.030 | ND (0.0010) | 0.0010 | ND (0.0010) | 0.0037 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0011 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/30/2019 | ND (0.001) | 0.004 | 0.470 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.043 | ND (0.0010) | ND (0.0010) | 0.0036 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 1/15/2020 | ND (0.001) | ND (0.002) | 0.561 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.005) | ND (0.025) | ND (0.0010) | 0.0033 | ND (0.0020) | ND (0.0010) | ND (0.0020) | 0.011 | 0.0036 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 4/23/2020 | ND (0.001) | ND (0.002) | 0.086 | 0.0007 | ND (0.0025) | ND (0.010) | 0.022 | ND (0.010) | ND (0.010) | 0.057 | ND (0.025) | ND (0.005) | ND (0.010) | 0.309 | ND (0.0010) | ND (0.0010) | 0.001 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 7/30/2020 | ND (0.001) | ND (0.002) | 0.225 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.145 | ND (0.0010) | ND (0.0010) | 0.0022 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 10/19/2020 | ND (0.001) | ND (0.002) | 0.175 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.114 | ND (0.0010) | ND (0.0010) | 0.0025 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 1/5/2021 | ND (0.001) | 0.292 | 0.0019 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.01) | ND (0.01) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.084 | ND (0.0010) | ND (0.0010) | 0.0017 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0023 | ND (0.0010) | 0.0034 | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| | 4/7/2021 | ND (0.001) | ND (0.002) | 0.394 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.075 | ND (0.0010) | ND (0.0010) | 0.0023 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0024 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 7/27/2021 | ND (0.001) | ND (0.002) | 0.054 | ND (0.0005) | ND (0.0025) | ND (0.010) | 0.011 | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | 0.083 | ND (0.0010) | ND (0.0010) | 0.0016 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0018 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 10/19/2021 | ND (0.002) | ND (0.002) | 0.072 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | ND | | | | | | | | | | | | | | | | | | | | | |

Table 2

**Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island**

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|---------------------------------|------------|-------------|------------|---------------|-------------|---------------|------------|------------|--------------|------------|--------------|------------|-------------|------------|--------------|-------------|--------------------|---------------------|-------------|---------------|--------------|-------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEM GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| | 5/31/2017 | ND (0.025) | ND (0.002) | 0.050 | ND (0.0005) | 0.0043 | ND (0.010) | ND (0.010) | 0.057 | ND (0.002) | 0.042 | ND (0.005) | ND (0.002) | ND (0.010) | 1.53 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 9/8/2017 | ND (0.002) | ND (0.002) | 0.030 | ND (0.0005) | 0.0025 | ND (0.010) | ND (0.010) | 0.021 | ND (0.002) | ND (0.025) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.562 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | 0.0014 | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 12/21/2017 | ND (0.002) | ND (0.002) | 0.040 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.017 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.0010) | ND (0.010) | 0.264 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/13/2018 | ND (0.002) | ND (0.005) | 0.0490 | ND (0.0005) | 0.0036 | ND (0.010) | ND (0.010) | 0.043 | ND (0.010) | 0.055 | ND (0.025) | ND (0.005) | ND (0.010) | 1.90 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/31/2018 | ND (0.0005) | ND (0.010) | 0.032 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.031 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.002) | ND (0.010) | 0.806 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/30/2018 | ND (0.001) | ND (0.002) | 0.070 | ND (0.0005) | 0.0044 | ND (0.010) | ND (0.010) | 0.052 | ND (0.010) | 0.036 | ND (0.005) | ND (0.005) | ND (0.010) | 1.50 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/9/2019 | ND (0.002) | ND (0.002) | 0.060 | ND (0.0005) | 0.0030 | ND (0.010) | ND (0.010) | 0.062 | ND (0.010) | 0.059 | ND (0.005) | ND (0.005) | ND (0.002) | ND (0.010) | 1.88 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/12/2019 | ND (0.001) | ND (0.002) | 0.047 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.034 | ND (0.010) | 0.038 | ND (0.025) | ND (0.005) | ND (0.010) | 1.34 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/29/2019 | ND (0.001) | ND (0.002) | 0.057 | ND (0.0005) | 0.0063 | ND (0.010) | ND (0.010) | 0.052 | ND (0.01) | 0.046 | ND (0.005) | ND (0.005) | ND (0.010) | 1.53 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/30/2019 | ND (0.001) | ND (0.002) | 0.470 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.043 | ND (0.010) | 0.043 | ND (0.025) | ND (0.005) | ND (0.010) | 0.036 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/15/2020 | ND (0.001) | ND (0.002) | 0.069 | ND (0.0005) | 0.0040 | ND (0.010) | ND (0.010) | 0.069 | ND (0.010) | 0.070 | ND (0.025) | ND (0.005) | ND (0.010) | 2.41 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0014 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/23/2020 | ND (0.001) | ND (0.002) | 0.063 | ND (0.0005) | 0.0033 | ND (0.010) | ND (0.010) | 0.073 | ND (0.010) | 0.061 | ND (0.025) | ND (0.005) | ND (0.010) | 2.06 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0111 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/30/2020 | ND (0.001) | ND (0.002) | ND (0.025) | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.033 | ND (0.010) | 0.025 | ND (0.005) | ND (0.005) | ND (0.010) | 1.00 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/19/2020 | ND (0.001) | ND (0.002) | 0.043 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.038 | ND (0.010) | 0.038 | ND (0.025) | ND (0.005) | ND (0.010) | 1.23 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | 0.0013 | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/5/2021 | ND (0.001) | ND (0.002) | 0.062 | ND (0.0005) | 0.0037 | ND (0.010) | ND (0.010) | 0.065 | ND (0.010) | 0.065 | ND (0.025) | ND (0.005) | ND (0.010) | 2.12 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0014 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/7/2021 | ND (0.001) | ND (0.002) | 0.028 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.058 | ND (0.010) | 0.025 | ND (0.005) | ND (0.005) | ND (0.010) | 0.85 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 7/27/2021 | ND (0.001) | ND (0.002) | 0.046 | ND (0.0005) | 0.0034 | ND (0.010) | ND (0.010) | 0.038 | ND (0.010) | 0.029 | ND (0.025) | ND (0.005) | ND (0.002) | 1.21 | ND (0.0010) | ND (0.0010) | ND (0.0010)</td | | | | | | | | | | | | |

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|---------------------------------|------|------------|---------------|--------------|-------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|-------------|-------------|---------------|--------------|--------------------|---------------------|---------------|---------------|--------------|-------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEM GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| 1/19/2022 | | ND (0.002) | 0.006 | 0.095 | ND (0.0005) | ND (0.0025) | 0.013 | 0.014 | 0.025 | 0.038 | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.0002) | ND (0.010) | 0.106 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 4/19/2022 | | ND (0.001) | ND (0.002) | 0.041 | ND (0.0005) | ND (0.00050) | ND (0.010) | ND (0.010) | 0.013 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.005) | ND (0.010) | 0.042 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 7/19/2022 | | ND (0.001) | 0.0085 | 0.180 | ND (0.0007) | 0.00052 | 0.021 | 0.014 | 0.049 | 0.110 | 0.024 | ND (0.001) | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.210 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 10/5/2022 | | ND (0.001) | ND (0.001) | 0.036 | ND (0.0007) | ND (0.00050) | ND (0.015) | 0.00053 | 0.0065 | 0.0014 | 0.0014 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.013 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 1/9/2023 | | ND (0.001) | 0.0012 | 0.043 | ND (0.0007) | ND (0.00050) | ND (0.015) | 0.0061 | 0.0082 | 0.0042 | 0.0049 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.038 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 4/4/2023 | | ND (0.001) | 0.0013 | 0.140 | ND (0.0007) | ND (0.00050) | ND (0.015) | 0.0230 | 0.0022 | 0.0017 | 0.0076 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.013 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 7/17/2023 | | ND (0.001) | 0.0087 | 0.120 | ND (0.0007) | 0.00068 | 0.021 | 0.0160 | 0.086 | 0.120 | 0.024 | 0.0011 | ND (0.0005) | ND (0.0002) | 0.228 | 0.190 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 10/4/2023 | | ND (0.001) | 0.004 | 0.055 | ND (0.0007) | ND (0.00050) | 0.0052 | 0.0079 | 0.021 | 0.017 | 0.0087 | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.0066 | 0.047 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 1/12/2024 | | ND (0.002) | ND (0.002) | 0.034 | ND (0.0008) | ND (0.002) | ND (0.004) | ND (0.004) | 0.0084 | 0.0039 | ND (0.004) | ND (0.0025) | ND (0.002) | ND (0.008) | ND (0.004) | 0.021 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 4/10/2024 | | ND (0.002) | ND (0.002) | 0.260 | ND (0.0008) | ND (0.002) | ND (0.004) | 0.045 | ND (0.004) | 0.0012 | 0.01 | ND (0.0025) | ND (0.002) | ND (0.004) | 0.021 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| 7/29/2024 | | ND (0.002) | ND (0.002) | 0.043 | ND (0.0008) | 0.0024 | ND (0.004) | ND (0.004) | 0.037 | 0.0035 | 0.028 | ND (0.0025) | ND (0.002) | ND (0.008) | ND (0.004) | 1.200 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| 10/21/2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/24/2025 | | ND (0.002) | 0.0029 | 0.140 | ND (0.0008) | ND (0.002) | 0.0073 | 0.021 | 0.023 | 0.026 | 0.015 | ND (0.004) | ND (0.0025) | ND (0.002) | 0.0076 | 0.077 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 4/8/2025 | | ND (0.002) | ND (0.002) | 0.039 | ND (0.0008) | ND (0.002) | ND (0.004) | ND (0.004) | 0.004 | 0.0015 | ND (0.004) | ND (0.0025) | ND (0.002) | ND (0.004) | ND (0.016) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | |
| 1/19/2022 | | ND (0.002) | ND (0.002) | 0.351 | ND (0.0005) | ND (0.0025) | ND (0.010) | ND (0.010) | 0.017 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.0002) | ND (0.010) | 0.115 | ND (0.0010) | 0.0018 | 0.0019 | 0.0048 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0036 | 0.0099 | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 4/19/2022 | | ND (0.001) | ND (0.002) | 0.180 | ND (0.0005) | 0.0056 | ND (0.010) | ND (0.010) | 0.016 | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.0005) | ND (0.010) | 0.157 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0013 | 0.0024 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| 7/19/2022 | | ND (0.001) | ND (0.001) | 0.320 | ND (0.0007) | ND (0.0005) | 0.0016 | 0.0011 | 0.0016 | 0.0025 | 0.0028 | ND (0.001) | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.021 | ND (0.0010) | 0.0016 | 0.0013 | 0.0045 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0013 | 0.0071 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) |
| 10/5/2022 | | ND (0.001) | 0.0015 | 0.390 | ND (0.0007) | ND (0.0005) | 0.0024 | 0.0014 | 0.0078 | 0.0098 | 0.0042 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.037 | ND (0.0010) | 0.0012 | 0.0015 | 0.0042 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0021 | 0.0044 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) |
| 1/9/2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 2

Groundwater Analytical Results
Park Avenue, Portsmouth, Rhode Island

| Well ID | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Selenium | Silver | Thallium | Vanadium | Zinc | 1,1-Dichloroethane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloroethane | Chloroform | cis-1,2-Dichloroethene | Dichlorodifluoro-methane | Diethyl Ether | Isopropylbenzene | Tetrachloroethene | trans-1,2-Dichloroethene | Trichloroethene (TCE) | Vinyl Chloride |
|---------------------------------|------------|------------|---------------|--------------|-------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|-------------|---------------|---------------|--------------------|---------------------|-------------|---------------|---------------|--------------|------------------------|--------------------------|---------------|------------------|-------------------|--------------------------|-----------------------|----------------|
| RIDEM GA Groundwater Objectives | | 0.006 | 0.01 | 2 | 0.004 | 0.005 | 0.1 | NS | 0.015 | 0.1 | 0.05 | NS | 0.002 | NS | NS | 0.075 | 0.005 | 0.1 | NS | NS | 0.07 | NS | NS | NS | 0.005 | 0.1 | 0.005 | 0.002 | | |
| MW-7 | 1/19/2022 | ND (0.002) | 0.023 | 0.212 | ND (0.0005) | ND (0.0025) | 0.020 | ND (0.010) | 0.031 | 0.015 | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.0002) | ND (0.010) | 0.056 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0069 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/19/2022 | ND (0.001) | 0.008 | 0.099 | ND (0.0005) | 0.0051 | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.005) | ND (0.010) | 0.122 | ND (0.0010) | ND (0.0010) | 0.0013 | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0120 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | | | |
| | 7/19/2022 | ND (0.001) | 0.0092 | 0.160 | ND (0.0007) | ND (0.0005) | 0.0074 | 0.0039 | 0.0083 | 0.0043 | 0.0054 | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.0018 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0092 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 10/5/2022 | ND (0.001) | 0.0050 | 0.140 | ND (0.0007) | ND (0.0005) | 0.0033 | 0.0015 | 0.0021 | ND (0.0010) | 0.0017 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | ND (0.010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0051 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 1/9/2023 | ND (0.001) | 0.0031 | 0.110 | ND (0.0007) | 0.00060 | 0.0041 | 0.0040 | 0.013 | 0.0065 | 0.0087 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.170 | ND (0.0050) | ND (0.0050) | ND (0.0010) | ND (0.0050) | ND (0.010) | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0050) | |
| | 4/4/2023 | ND (0.001) | 0.0065 | 0.110 | ND (0.0007) | ND (0.0005) | 0.0033 | 0.0051 | 0.0077 | 0.0062 | 0.0095 | ND (0.001) | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.069 | ND (0.0050) | ND (0.0050) | ND (0.0050) | 0.0010 | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | |
| | 7/17/2023 | ND (0.001) | 0.0042 | 0.100 | ND (0.0007) | 0.0030 | 0.010 | 0.0097 | 0.058 | 0.024 | 0.016 | 0.016 | ND (0.0005) | ND (0.0002) | ND (0.004) | 0.450 | ND (0.0050) | ND (0.0050) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | 0.0091 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/4/2023 | ND (0.001) | 0.0073 | 0.160 | ND (0.0007) | 0.00099 | 0.015 | 0.0072 | 0.029 | 0.016 | 0.010 | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.0067 | 0.100 | ND (0.010) | ND (0.010) | ND (0.020) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | |
| | 1/12/2024 | ND (0.002) | ND (0.002) | 0.140 | ND (0.0008) | ND (0.002) | ND (0.004) | 0.018 | 0.044 | 0.035 | 0.036 | ND (0.0025) | ND (0.002) | ND (0.008) | ND (0.004) | 0.470 | ND (0.010) | ND (0.010) | ND (0.020) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | |
| | 4/10/2024 | ND (0.002) | ND (0.002) | 0.120 | ND (0.0008) | ND (0.002) | ND (0.004) | 0.012 | 0.018 | 0.031 | 0.028 | ND (0.0025) | ND (0.002) | ND (0.008) | ND (0.004) | 0.100 | ND (0.010) | ND (0.010) | ND (0.020) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | ND (0.010) | |
| | 7/29/2024 | ND (0.002) | 0.0033 | 0.240 | ND (0.0008) | ND (0.002) | 0.011 | ND (0.004) | 0.042 | 0.043 | 0.014 | 0.017 | ND (0.0008) | ND (0.004) | 0.130 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.0033 | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 10/21/2024 | ND (0.002) | 0.0026 | 0.160 | ND (0.0008) | ND (0.002) | ND (0.004) | ND (0.004) | 0.0091 | 0.0054 | ND (0.004) | ND (0.0025) | ND (0.002) | ND (0.004) | 0.090 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 1/24/2025 | ND (0.002) | ND (0.002) | 0.130 | ND (0.0008) | ND (0.002) | ND (0.004) | ND (0.004) | 0.013 | 0.0073 | 0.0053 | ND (0.0025) | ND (0.002) | ND (0.004) | 0.150 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| | 4/8/2025 | ND (0.002) | ND (0.002) | 0.100 | ND (0.0008) | ND (0.002) | ND (0.004) | ND (0.004) | 0.010 | 0.0055 | 0.0057 | ND (0.0025) | ND (0.002) | ND (0.004) | 0.093 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | | |
| MW-8 | 1/19/2022 | ND (0.002) | 0.012 | 0.079 | ND (0.0005) | ND (0.0025) | ND (0.010) | 0.011 | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.0002) | ND (0.010) | 0.129 | ND (0.0010) | ND (0.0010) | ND (0.0020) | ND (0.0010) | 0.126 | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | ND (0.0010) | |
| | 4/19/2022 | ND (0.001) | 0.005 | 0.069 | ND (0.0005) | 0.0069 | ND (0.010) | 0.019 | ND (0.010) | ND (0.010) | ND (0.025) | ND (0.025) | ND (0.005) | ND (0.0005) | ND (0.010) | 0.178 | 0.024 | ND (0.0010) | ND (0.0010) | 0.0024 | ND (0.0010) | 0.115 | ND (0.0020) | ND (0.0010) | ND (0.0010) | ND (0.0010) | 0.0042 | 0.0015 | 0.0246 | |
| | 7/19/2022 | ND (0.001) | 0.0077 | 0.085 | ND (0.0007) | ND (0.0005) | 0.0038 | 0.015 | 0.0049 | 0.0046 | 0.012 | ND (0.001) | ND (0.0005) | ND (0.0002) | 0.140 | 0.0020 | ND (0.0010) | ND (0.0010) | ND (| | | | | | | | | | | |

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | | Soil Gas | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------------------------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | CO ₂ (%) |
| SG-1 | 5/30/2017 | 54 | 30.24 | 4 | SE | 0.0 | 20.5 | 0 | 20.5 | 0 | 0 |
| | 9/8/2017 | 72 | 30.03 | 5 | S | 0.0 | 19.2 | 0 | 19.1 | 0 | 0 |
| | 12/21/2017 | 32 | 30.24 | 8 | NW | 0.0 | 21.6 | 0 | 21.2 | 0 | 0 |
| | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 21.6 | 0 | 0 |
| | 7/31/2018 | 85 | 30.14 | 1 | S | 0.0 | 19.4 | 0 | 19.4 | 0 | 0 |
| | 10/30/2018 | 50 | 29.97 | 8 | SSE | 0.0 | 20.9 | 0 | 20.8 | 0 | 0.1 |
| | 1/9/2019 | 43 | 29.38 | 5 | S | 0.0 | 20.8 | 0 | 20.8 | 0 | 0.1 |
| | 4/12/2019 | 49 | 30.10 | 6 | NW | 0.0 | 21.3 | No flow, obstructed | | | |
| | 4/25/2019 | 54 | 29.86 | 3 | N | 0.0 | 20.9 | 0 | 20.7 | 0 | 0 |
| | 7/29/2019 | 87 | 30.01 | 4 | SE | 0.0 | 21.9 | Standpipe laying on ground. Tubing appeared intact but no flow. | | | |
| | 10/30/2019 | 67 | 30.36 | 0 | -- | 0.0 | 20.2 | Standpipe repaired | | | |
| | 1/15/2020 | 44 | 30.17 | 6 | S | 0.0 | 21.2 | 0 | 21.2 | 0 | 0 |
| | 4/23/2020 | 46 | 30.05 | 5 | S | 0.0 | 20.8 | 0 | 20.8 | 0 | 0 |
| | 7/30/2020 | 78 | 29.86 | 5 | S | 0.0 | 20.0 | 0 | 20.0 | 0 | 0 |
| | 10/19/2020 | 67 | 30.23 | 4 | S | 0.0 | 20.8 | 0 | 20.8 | 0 | 0 |
| | 1/5/2021 | 32 | 29.75 | 8 | E | 0.0 | 20.1 | 0 | 20.1 | 0 | 0 |
| | 4/7/2021 | 55 | 29.83 | 6 | E | 0.0 | 19.2 | 0 | 19.2 | 0 | 0 |
| | 7/27/2021 | 81 | 29.95 | 5 | SE | 0.0 | 20.3 | 0 | 20.0 | 0 | 0.4 |
| | 10/19/2021 | 50 | 29.88 | 11 | W | 0.0 | 20.8 | 0 | 20.6 | 0 | 0 |
| | 1/19/2022 | 35 | 29.95 | 6 | S | 0.0 | 22.0 | 0 | 22.0 | 0 | 0 |
| | 4/19/2022 | 50 | 29.49 | 10 | SW | 0.0 | 21.0 | 0 | 21.0 | 0 | 0 |
| | 7/19/2022 | 80 | 29.67 | 2 | SW | 0.0 | 20.3 | 0 | 20.3 | 0 | 0 |
| | 10/5/2022 | 54 | 29.85 | 5 | E | 0.0 | 20.9 | 0 | 20.9 | 0 | 0 |
| | 1/9/2023 | 34 | 29.84 | 3 | S | 0.0 | 21.2 | 0 | 21.2 | 0 | 0 |
| | 4/4/2023 | 51 | 30.05 | 2 | SE | 0.0 | 22.0 | 0 | 22.0 | 0 | 0 |
| | 7/17/2023 | 70 | 29.88 | 2 | S | 0.0 | 20.2 | 0 | 20.2 | 0 | 0 |
| | 10/4/2023 | 71 | 30.15 | 7 | NW | 0.0 | 20.6 | 0 | 20.4 | 0 | 0 |
| | 1/12/2024 | 44 | 30.08 | 5 | W | 0.0 | 21.8 | 0 | 21.6 | 0 | 0 |
| | 4/10/2024 | 50 | 30.50 | 2 | SE | 0.0 | 20.3 | 0 | 20.3 | 0 | 0 |
| | 7/29/2024 | 64 | 29.98 | 5 | W | 0.0 | 20.5 | 0 | 20.5 | 0 | 0 |
| | 10/21/2024 | 70 | 30.11 | 4 | SE | 0.0 | 20.6 | 0 | 20.6 | 0 | 0 |
| | 1/24/2025 | 30 | 29.47 | 2 | W | 0.0 | 22.5 | 0 | 22.5 | 0 | 0 |
| | 4/11/2025 | 43 | 30.20 | 5 | NE | 0.0 | 21.6 | 0 | 21.0 | 0 | 0 |

Lower explosive limit (LEL) of methane (CH₄) is 5%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) |
| SG-2 | 5/30/2017 | 56 | 30.22 | 6 | SE | 0.0 | 20.6 | 0 | 20.6 | 0 |
| | 9/8/2017 | 72 | 30.03 | 8 | S | 0.0 | 19.4 | 0 | 19.3 | 0 |
| | 12/21/2017 | 32 | 30.24 | 10 | NW | 0.0 | 21.6 | 0 | 21.4 | 0 |
| | 4/13/2018 | 72 | 30.03 | 8 | S | 0.0 | 19.4 | 0 | 19.3 | 0 |
| | 7/31/2018 | 85 | 30.15 | 12 | SW | 0.0 | 19.8 | 0 | 19.7 | 0.1 |
| | 10/30/2018 | 50 | 29.95 | 8 | SE | 0.0 | 21.1 | 0 | 20.9 | 0 |
| | 1/9/2019 | 43 | 29.34 | 10 | S | 0.0 | 21.2 | 0 | 21.2 | 0 |
| | 4/12/2019 | 49 | 30.10 | 7 | NE | 0.0 | 21.2 | 0 | 21.2 | 0.2 |
| | 7/29/2019 | 99 | 30.04 | 3 | S | 0.0 | 21.8 | 0.1 | 21.6 | 0.2 |
| | 10/30/2019 | 67 | 30.36 | 0 | -- | 0.0 | 20.2 | 0 | 20.6 | 0 |
| | 1/15/2020 | 45 | 30.14 | 5 | S | 0.0 | 21.3 | 0 | 21.2 | 0 |
| | 4/23/2020 | 49 | 29.99 | 3 | S | 0.0 | 20.8 | 0 | 20.8 | 0 |
| | 7/30/2020 | 80 | 28.86 | 10 | S | 0.0 | 20.4 | 0 | 20.4 | 0 |
| | 10/19/2020 | 65 | 30.23 | 2 | S | 0.0 | 20.9 | 0 | 20.9 | 0 |
| | 1/5/2021 | 32 | 29.75 | 3 | E | 0.0 | 20.1 | 0 | 20.1 | 0 |
| | 4/7/2021 | 56 | 29.91 | 4 | E | 0.0 | 20.8 | 0 | 20.8 | 0 |
| | 7/27/2021 | 84 | 29.95 | 8 | SE | 0.0 | 20.5 | 0 | 20.5 | 0 |
| | 10/19/2021 | 50 | 29.86 | 12 | W | 0.0 | 20.8 | 0 | 20.4 | 0 |
| | 1/19/2022 | 35 | 29.95 | 6 | S | 0.0 | 22.2 | 0 | 19.9 | 0 |
| | 4/19/2022 | 50 | 29.50 | 10 | SW | 0.0 | 21.0 | 0 | 19.8 | 0 |
| | 7/19/2022 | 78 | 29.67 | 4 | SW | 0.0 | 20.3 | 0 | 20.3 | 0 |
| | 10/5/2022 | 54 | 29.85 | 4 | E | 0.0 | 20.9 | 0 | 20.9 | 0 |
| | 1/9/2023 | 35 | 29.84 | 3 | S | 0.0 | 21.7 | 0 | 21.7 | 0 |
| | 4/4/2023 | 50 | 30.04 | 2 | SE | 0.0 | 22.0 | 0 | 22.0 | 0 |
| | 7/17/2023 | 70 | 29.88 | 2 | S | 0.0 | 20.2 | 0 | 20.2 | 0 |
| | 10/4/2023 | 71 | 30.15 | 5 | NW | 0.0 | 20.6 | 0 | 20.1 | 0 |
| | 1/12/2024 | 43 | 30.08 | 5 | W | 0.0 | 21.8 | 0 | 21.6 | 0 |
| | 4/10/2024 | 50 | 30.50 | 3 | SE | 0.0 | 20.3 | 0 | 20.1 | 0 |
| | 7/29/2024 | 63 | 29.98 | 4 | W | 0.0 | 20.5 | 0 | 19.9 | 0.6 |
| | 10/21/2024 | 70 | 30.11 | 4 | SE | 0.0 | 20.6 | 0 | 20.4 | 0 |
| | 1/24/2025 | 30 | 29.97 | 2 | W | 0.0 | 22.5 | 0 | 22.5 | 0 |
| | 4/11/2025 | 43 | 30.20 | 6 | NE | 0.0 | 21.6 | 0 | 21.4 | 0 |

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 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-3 | 5/30/2017 | 56 | 30.22 | 6 | SE | 0.0 | 20.4 | 9.7 | 1.3 | 0 | 12.5 |
| | 9/8/2017 | 73 | 30.04 | 4 | SE | 0.0 | 19.7 | 4.1 | 11.7 | 0 | 5.0 |
| | 12/21/2017 | 32 | 30.24 | 10 | NW | 0.0 | 21.6 | 4.6 | 7.8 | 0 | 9.0 |
| | 4/13/2018 | 73 | 30.04 | 4 | SE | 0.0 | 19.7 | 4.1 | 11.7 | 0 | 5.0 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.7 | 7.7 | 5.2 | 2 | 10.4 |
| | 10/30/2018 | 51 | 29.95 | 10 | SSE | 0.0 | 21.8 | 13.5 | 0.2 | 4 | 2.0 |
| | 1/9/2019 | 42 | 29.33 | 12 | S | 0.0 | 21.3 | 16.0 | 0.0 | 4 | 11.7 |
| | 4/12/2019 | 50 | 30.10 | 6 | N | 0.0 | 20.9 | 3.6 | 0.1 | 1 | 11.1 |
| | 7/29/2019 | 109 | 30.05 | 2 | S | 0.0 | 21.6 | 15.4 | 0.6 | 4 | 11.9 |
| | 10/30/2019 | 67 | 30.36 | 0 | -- | 0.0 | 20.9 | 10.7 | 0.2 | 4 | 14.4 |
| | 1/15/2020 | 45 | 30.13 | 2 | S | 0.0 | 21.2 | 3.0 | 12.4 | 1.1 | 4.8 |
| | 4/23/2020 | 52 | 29.95 | 5 | S | 0.0 | 21.3 | 0 | 21.2 | 0 | 0 |
| | 7/30/2020 | 83 | 29.86 | 5 | S | 0.0 | 20.6 | 0.1 | 20.5 | 0 | 0 |
| | 10/19/2020 | 64 | 30.23 | 1 | S | 0.0 | 21.2 | 2.7 | 12.6 | 2 | 6.1 |
| | 1/5/2021 | 32 | 29.75 | 5 | E | 0.0 | 20.1 | 0 | 20.1 | 0 | 0 |
| | 4/7/2021 | 60 | 29.91 | 3 | E | 0.0 | 21.7 | 2.6 | 13.4 | 1 | 3.9 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.6 | 0 | 20.5 | 0 | 0 |
| | 10/19/2021 | 52 | 29.85 | 10 | W | 0.0 | 20.8 | 15.8 | 0.3 | 6 | 14.1 |
| | 1/19/2022 | 34 | 29.96 | 8 | S | 0.0 | 22.3 | 0 | 22.3 | 0 | 0 |
| | 4/19/2022 | 50 | 29.49 | 17 | SW | 0.0 | 21.2 | 0 | 21.1 | 0 | 0 |
| | 7/19/2022 | 78 | 29.67 | 4 | SW | 0.0 | 20.4 | 0 | 20.3 | 0 | 0.4 |
| | 10/5/2022 | 55 | 29.85 | 3 | E | 0.0 | 20.9 | 3.4 | 13.2 | 0 | 5.7 |
| | 1/9/2023 | 35 | 29.84 | 3 | S | 0.0 | 21.7 | 0 | 21.7 | 0 | 0 |
| | 4/4/2023 | 50 | 30.04 | 2 | SE | 0.0 | 22.0 | 0 | 21.5 | 0 | 0 |
| | 7/17/2023 | 74 | 29.88 | 3 | S | 0.0 | 20.4 | 0 | 20.1 | 0 | 0 |
| | 10/4/2023 | 68 | 30.15 | 5 | NW | 0.0 | 20.6 | 18.2 | 2.0 | 4 | 14.3 |
| | 1/12/2024 | 43 | 30.08 | 5 | W | 0.0 | 21.8 | 21.8 | 6.4 | 8 | 8.2 |
| | 4/10/2024 | 50 | 30.50 | 5 | SE | 0.0 | 20.3 | 9.5 | 1.1 | 10 | 8.8 |
| | 7/29/2024 | 63 | 29.98 | 3 | W | 0.0 | 20.5 | 2.5 | 7.0 | 7 | 4.5 |
| | 10/21/2024 | 72 | 30.11 | 2 | SE | 0.0 | 20.6 | 0 | 20.0 | 0 | 6.7 |
| | 1/24/2025 | 30 | 29.97 | 5 | W | 0.0 | 22.5 | 2.9 | 0.2 | 14 | 14.5 |
| | 4/11/2025 | 43 | 30.20 | 4 | NE | 0.0 | 21.6 | 6.7 | 0.1 | 20 | 11.5 |

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Table 3
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Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-4 | 5/30/2017 | 56 | 30.20 | 8 | SE | 0.0 | 20.1 | 0 | 19.6 | 0 | 0.2 |
| | 9/8/2017 | 73 | 30.05 | 6 | SE | 0.0 | 19.2 | 0 | 18.5 | 0 | 0.4 |
| | 12/21/2017 | 32 | 30.24 | 6 | NW | 0.0 | 21.6 | 0 | 21.0 | 0 | 0.5 |
| | 4/13/2018 | 73 | 30.05 | 6 | SE | 0.0 | 19.2 | 0 | 18.5 | 0 | 0.4 |
| | 7/31/2018 | 85 | 30.13 | 1 | S | 0.0 | 19.7 | 0 | 19.3 | 0 | 0.4 |
| | 10/30/2018 | 55 | 29.96 | 14 | SSE | 0.0 | 21.7 | 0 | 18.8 | 0 | 15.3 |
| | 1/9/2019 | 43 | 29.34 | 10 | S | 0.0 | 21.6 | 0 | 18.7 | 0 | 2.1 |
| | 4/12/2019 | 47 | 30.10 | 5 | N | 0.0 | 20.7 | 0 | 19.9 | 0 | 1.4 |
| | 7/29/2019 | 104 | 30.03 | 0 | SE | 0.0 | 21.3 | 0 | 20.3 | 0 | 0.9 |
| | 10/30/2019 | 67 | 30.37 | 0 | -- | 0.0 | 21.0 | 0 | 18.7 | 0 | 1.2 |
| | 1/15/2020 | 44 | 30.12 | 2 | S | 0.0 | 21.2 | 0 | 20.5 | 0 | 1.3 |
| | 4/23/2020 | 53 | 29.97 | 1 | S | 0.0 | 21.1 | 0 | 20.7 | 0 | 0.4 |
| | 7/30/2020 | 83 | 29.87 | 12 | S | 0.0 | 20.6 | 0 | 20.6 | 0 | 0.8 |
| | 10/19/2020 | 60 | 30.23 | 2 | S | 0.0 | 21.2 | 0 | 20.6 | 0 | 0.5 |
| | 1/5/2021 | 32 | 29.75 | 2 | E | 0.0 | 20.1 | 0 | 20.1 | 0 | 0 |
| | 4/7/2021 | 60 | 29.91 | 5 | E | 0.0 | 21.6 | 0 | 21.3 | 0 | 0.3 |
| | 7/27/2021 | 89 | 29.60 | 2 | SW | 0.0 | 20.7 | 0 | 20.7 | 0 | 0.3 |
| | 10/19/2021 | 53 | 29.85 | 8 | W | 0.0 | 20.9 | 0 | 20.2 | 0 | 1.5 |
| | 1/19/2022 | 34 | 29.97 | 5 | S | 0.0 | 21.3 | 0 | 21.3 | 0 | 0 |
| | 4/19/2022 | 50 | 29.49 | 20 | SW | 0.0 | 21.0 | 0 | 20.0 | 0 | 1.8 |
| | 7/19/2022 | 80 | 29.65 | 3 | SW | 0.0 | 20.4 | 0 | 20.4 | 0 | 0 |
| | 10/5/2022 | 42 | 29.85 | 2 | E | 0.0 | 20.9 | 0 | 18.5 | 0 | 0.5 |
| | 1/9/2023 | 34 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 21.7 | 0 | 0.3 |
| | 4/4/2023 | 49 | 30.04 | 3 | SE | 0.0 | 22.1 | 0 | 22.0 | 0 | 0 |
| | 7/17/2023 | 72 | 29.88 | 3 | S | 0.0 | 20.2 | 0 | 20.1 | 0 | 0 |
| | 10/4/2023 | 65 | 30.15 | 3 | NW | 0.0 | 21.3 | 0 | 21.0 | 0 | 0.2 |
| | 1/12/2024 | 40 | 30.08 | 2 | W | 0.0 | 21.6 | 0 | 19.4 | 0 | 0.7 |
| | 4/10/2024 | 50 | 30.50 | 4 | SE | 0.0 | 20.3 | 0 | 20.3 | 0 | 0 |
| | 7/29/2024 | 63 | 29.98 | 2 | W | 0.0 | 20.5 | 0 | 20.5 | 0 | 0 |
| | 10/21/2024 | 70 | 30.12 | 2 | SE | 0.0 | 20.6 | 0 | 20.2 | 0 | 0 |
| | 1/24/2025 | 30 | 29.94 | 3 | W | 0.0 | 22.5 | 0 | 21.1 | 0 | 0.9 |
| | 4/11/2025 | 42 | 30.20 | 4 | NE | 0.0 | 21.6 | 0 | 16.5 | 0 | 2.8 |

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Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) |
| SG-5 | 1/19/2022 | 32 | 30.00 | 5 | S | 0.0 | 21.6 | 0 | 21.6 | 0 |
| | 4/19/2022 | 50 | 29.50 | 19 | SW | 0.0 | 21.4 | 0 | 17.9 | 0 |
| | 1/12/2024 | 44 | 30.08 | 5 | W | 0.0 | 21.8 | 0 | 21.5 | 0 |
| | 4/10/2024 | 50 | 30.50 | 8 | SE | 0.0 | 20.3 | 0 | 11.8 | 0 |
| | 7/29/2024 | 64 | 29.98 | 4 | W | 0.0 | 20.5 | 0 | 19.7 | 0 |
| | 10/21/2024 | 72 | 30.12 | 2 | SE | 0.0 | 20.6 | 0 | 4.1 | 3.7 |
| | 1/24/2025 | 30 | 29.94 | 2 | W | 0.0 | 22.5 | 0 | 21.0 | 0 |
| | 4/11/2025 | 43 | 30.20 | 6 | NE | 0.0 | 21.6 | 0 | 20.3 | 0 |
| SG-6 | 1/19/2022 | 33 | 30.00 | 2 | S | 0.0 | 21.8 | 0 | 18.8 | 0 |
| | 4/19/2022 | 50 | 29.49 | 18 | SW | 0.0 | 21.0 | 0 | 18.0 | 0 |
| | 7/19/2022 | 78 | 29.65 | 5 | SW | 0.0 | 20.4 | 0 | 16.2 | 0 |
| | 10/5/2022 | 46 | 29.85 | 4 | E | 0.0 | 21.0 | 0 | 15.8 | 0 |
| | 1/9/2023 | 35 | 29.84 | 3 | S | 0.0 | 21.8 | 0 | 20.2 | 0 |
| | 4/4/2023 | 49 | 30.04 | 4 | SE | 0.0 | 22.0 | 0 | 21.5 | 0 |
| | 7/17/2023 | 73 | 29.88 | 3 | S | 0.0 | 20.4 | 0 | 19.1 | 0 |
| | 10/4/2023 | 68 | 30.15 | 3 | NW | 0.0 | 20.8 | 0 | 18.0 | 0 |
| | 1/12/2024 | 41 | 30.08 | 5 | W | 0.0 | 21.9 | 0 | 19.5 | 0 |
| | 4/10/2024 | 50 | 30.50 | 4 | SE | 0.0 | 20.3 | 0 | 19.1 | 0 |
| | 7/29/2024 | 64 | 29.98 | 4 | W | 0.0 | 20.5 | 0 | 17.3 | 0 |
| | 10/21/2024 | 72 | 30.12 | 6 | SE | 0.0 | 20.3 | 0 | 19.9 | 0 |
| | 1/24/2025 | 29 | 29.94 | 3 | W | 0.0 | 22.5 | 0 | 21.1 | 0 |
| | 4/11/2025 | 40 | 30.20 | 4 | NE | 0.0 | 21.6 | 0 | 20.4 | 0 |

Lower explosive limit (LEL) of methane (CH₄) is 5%
Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | | Soil Gas | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------------------------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | CO ₂ (%) |
| SG-7 | 1/19/2022 | 34 | 29.97 | 5 | S | 0.0 | 22.3 | 0 | 20.8 | 0 | 1.3 |
| | 4/19/2022 | 50 | 29.49 | 20 | SW | 0.0 | 21.0 | 0 | 18.3 | 0 | 1.7 |
| | 7/19/2022 | 77 | 29.65 | 4 | SW | 0.0 | 20.5 | 0 | 19.9 | 0 | 0.7 |
| | 10/5/2022 | 42 | 29.85 | 2 | E | 0.0 | 21.0 | 0 | 12.0 | 0 | 9.0 |
| | 1/9/2023 | 34 | 29.84 | 3 | S | 0.0 | 21.7 | 0 | 18.7 | 0 | 2.2 |
| | 4/4/2023 | 49 | 30.04 | 2 | SE | 0.0 | 22.1 | 0 | 19.8 | 0 | 1.6 |
| | 7/17/2023 | 73 | 29.88 | 3 | S | 0.0 | 20.2 | 0 | 19.2 | 0 | 0.6 |
| | 10/4/2023 | 65 | 30.15 | 2 | NW | 0.0 | 21.0 | 0 | 12.4 | 0 | 7.5 |
| | 1/12/2024 | 41 | 30.08 | 2 | W | 0.0 | 21.6 | 0 | 18.6 | 0 | 2.8 |
| | 4/10/2024 | 50 | 30.50 | 4 | SE | 0.0 | 20.3 | 0 | 17.3 | 0 | 2.3 |
| | 7/29/2024 | 63 | 29.98 | 2 | W | 0.0 | 20.5 | 0 | 13.9 | 0 | 6.3 |
| | 10/21/2024 | 72 | 30.12 | 3 | SE | 0.0 | 20.5 | 0 | 20.0 | 0 | 1.4 |
| | 1/24/2025 | 29 | 29.94 | 4 | W | 0.0 | 22.3 | 0 | 20.2 | 0 | 1.8 |
| | 4/11/2025 | 42 | 30.20 | 5 | NE | 0.0 | 21.6 | 0 | 19.2 | 0 | 1.7 |
| SG-8 | 1/19/2022 | 33 | 30.00 | 5 | S | 0.0 | 21.8 | 3.2 | 0.5 | 0 | 6.0 |
| | 4/19/2022 | 50 | 29.49 | 15 | SW | 0.0 | 21.4 | 4.4 | 0.1 | 0 | 7.6 |
| | 7/19/2022 | 85 | 29.67 | 5 | SW | 0.0 | 20.4 | 0 | 5.7 | 0 | 10.1 |
| | 10/5/2022 | 50 | 29.85 | 3 | E | 0.0 | 20.9 | 1.9 | 0.2 | 0 | 12.1 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0.3 | 20.2 | 0 | 4.6 |
| | 4/4/2023 | 52 | 30.04 | 2 | SE | 0.0 | 22.0 | 0 | 11.5 | 0 | 3.4 |
| | 7/17/2023 | 76 | 29.88 | 3 | S | 0.0 | 20.4 | 4.7 | 0.1 | 0 | 11.5 |
| | 10/4/2023 | 68 | 30.15 | 6 | NW | 0.0 | 20.5 | 16.3 | 0.1 | 0 | 9.3 |
| | 1/12/2024 | 44 | 30.08 | 5 | W | 0.0 | 21.7 | 16.5 | 0.1 | 0 | 4.8 |
| | 4/10/2024 | 50 | 30.50 | 2 | SE | 0.0 | 20.3 | 5 | 0.7 | 1 | 5.1 |
| | 7/29/2024 | 64 | 29.98 | 3 | W | 0.0 | 20.5 | 0 | 6.8 | 0 | 11.1 |
| | 10/21/2024 | 70 | 30.12 | 5 | SE | 0.0 | 20.5 | 3.8 | 0.2 | 0 | 9.7 |
| | 1/24/2025 | 29 | 29.94 | 3 | W | 0.0 | 22.3 | 10.0 | 0.9 | 0 | 8.4 |
| | 4/11/2025 | 40 | 30.20 | 2 | NE | 0.0 | 21.6 | 6.3 | 0.2 | 0 | 8.9 |

Lower explosive limit (LEL) of methane (CH₄) is 5%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-3A | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 20.1 | 0 | 0.7 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.9 | 0 | 17.0 | 0 | 3.3 |
| | 10/30/2018 | 51 | 29.96 | 7 | SE | 0.0 | 21.4 | 0 | 13.5 | 0 | 6.5 |
| | 1/9/2019 | 42 | 29.33 | 10 | S | 0.0 | 21.2 | 0 | 17.0 | 0 | 3.9 |
| | 4/12/2019 | 46 | 30.20 | 9 | N | 0.0 | 21.2 | 0 | 19.4 | 1 | 2.7 |
| | 7/29/2019 | 101 | 30.04 | 5 | S | 0.0 | 21.9 | 0.7 | 0.6 | 0 | 14.5 |
| | 10/30/2019 | 67 | 30.37 | 0 | -- | 0.0 | 20.2 | 0 | 7.2 | 0 | 9.4 |
| | 1/15/2020 | 44 | 30.13 | 5 | S | 0.0 | 21.2 | 0 | 19.8 | 0 | 2.2 |
| | 4/23/2020 | 51 | 29.97 | 2 | S | 0.0 | 21.2 | 0 | 20.9 | 0.5 | 0.2 |
| | 7/30/2020 | 84 | 29.86 | 8 | S | 0.0 | 20.4 | 0 | 20.0 | 0 | 4.1 |
| | 10/19/2020 | 65 | 30.23 | 2 | S | 0.0 | 20.9 | 0 | 19.7 | 0 | 6.4 |
| | 1/5/2021 | 32 | 29.75 | 3 | E | 0.0 | 20.1 | 0 | 17.3 | 0 | 2.9 |
| | 4/7/2021 | 58 | 29.91 | 0 | -- | 0.0 | 20.1 | 0 | 19.3 | 0 | 1.8 |
| | 7/27/2021 | 84 | 29.95 | 8 | SE | 0.0 | 20.8 | 0 | 20.2 | 0 | 3.9 |
| | 10/19/2021 | 52 | 29.85 | 9 | W | 0.0 | 20.9 | 0 | 18.6 | 0 | 3.5 |
| | 1/19/2022 | 39 | 29.96 | 6 | S | 0.0 | 20.9 | 0 | 18.9 | 0 | 2.0 |
| | 4/19/2022 | 50 | 29.49 | 16 | SW | 0.0 | 21.0 | 0 | 17.6 | 0 | 5.1 |
| | 7/19/2022 | 80 | 29.67 | 4 | SW | 0.0 | 20.4 | 0 | 17.0 | 0 | 8.5 |
| | 10/5/2022 | 55 | 29.85 | 5 | E | 0.0 | 21.0 | 0 | 19.8 | 0 | 6.0 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 21.0 | 0 | 9.9 |
| | 4/4/2023 | 50 | 30.05 | 2 | SE | 0.0 | 22.0 | 0 | 18.7 | 0 | 4.6 |
| | 7/17/2023 | 70 | 29.88 | 4 | S | 0.0 | 20.2 | 0 | 17.6 | 0 | 8.3 |
| | Destroyed | | | | | | | | | | |
| SG-3B | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 18.2 | 0 | 2.6 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.9 | 0 | 10.3 | 0 | 8.6 |
| | 10/30/2018 | 51 | 29.95 | 7 | SSE | 0.0 | 21.5 | 0 | 15.3 | 0 | 6.0 |
| | 1/9/2019 | 42 | 29.33 | 15 | S | 0.0 | 21.1 | 0 | 15.9 | 0 | 5.0 |
| | 4/12/2019 | 48 | 30.20 | 7 | NE | 0.0 | 21.1 | 0 | 17.2 | 1 | 3.4 |
| | 7/29/2019 | 88 | 30.04 | 4 | S | 0.0 | 21.9 | Inaccessible - Dense Vegetation | | | |
| | 10/30/2019 | 67 | 30.34 | 0 | -- | 0.0 | 20.6 | 0 | 7.4 | 0 | 10.9 |
| | 1/15/2020 | 44 | 30.13 | 5 | S | 0.0 | 21.2 | 0 | 18.1 | 0 | 2.9 |
| | 4/23/2020 | 51 | 29.97 | 5 | S | 0.0 | 21.2 | 0 | 20.7 | 0 | 0.6 |
| | 7/30/2020 | 84 | 29.86 | 10 | S | 0.0 | 20.4 | 0 | 20.1 | 0 | 0.9 |
| | 10/19/2020 | 65 | 30.23 | 3 | S | 0.0 | 20.9 | 0 | 20.6 | 0 | 3.3 |
| | 1/5/2021 | 32 | 29.75 | 5 | E | 0.0 | 20.1 | 0 | 16.6 | 0 | 3.5 |
| | 4/7/2021 | 58 | 29.91 | 3 | E | 0.0 | 21.3 | 0 | 17.0 | 0 | 2.8 |
| | 7/27/2021 | 84 | 29.95 | 8 | SE | 0.0 | 20.2 | 0 | 20.1 | 0 | 4.8 |
| | 10/19/2021 | 52 | 29.85 | 10 | W | 0.0 | 20.9 | 0 | 18.8 | 0 | 6.2 |
| | Destroyed | | | | | | | | | | |
| SG-3C | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 17.6 | 0 | 3.3 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.8 | 0 | 12.3 | 0 | 7.9 |
| | 10/30/2018 | 52 | 29.95 | 9 | SSE | 0.0 | 21.4 | 0 | 21.6 | 0 | 0.1 |
| | 1/9/2019 | 42 | 29.34 | 12 | S | 0.0 | 21.2 | 0 | 20.0 | 0 | 3.0 |
| | 4/12/2019 | 48 | 30.20 | 7 | N | 0.0 | 20.9 | 0 | 21.2 | 0 | 0.2 |
| | 7/29/2019 | 88 | 30.04 | 4 | S | 0.0 | 21.9 | Inaccessible - Dense Vegetation | | | |
| | 10/30/2019 | 67 | 30.37 | 0 | -- | 0.0 | 20.7 | 0 | 20.9 | 0 | 0.1 |
| | 1/15/2020 | 44 | 30.12 | 2 | S | 0.0 | 21.2 | 0 | 21.0 | 0 | 0.1 |
| | 4/23/2020 | 52 | 29.97 | 2 | S | 0.0 | 21.2 | 0 | 20.4 | 0 | 2.5 |
| | 7/30/2020 | 85 | 29.87 | 7 | S | 0.0 | 20.4 | 0 | 19.8 | 0 | 2.0 |
| | 10/19/2020 | 65 | 30.23 | 3 | S | 0.0 | 20.9 | 0 | 20.7 | 0 | 1.8 |
| | 1/5/2021 | 33 | 29.75 | 3 | E | 0.0 | 20.1 | 0 | 18.6 | 0 | 2.1 |
| | 4/7/2021 | 60 | 29.91 | 6 | E | 0.0 | 21.3 | 0 | 19.0 | 0 | 2.6 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.7 | 0 | 20.3 | 0 | 3.0 |
| | 10/19/2021 | 52 | 29.85 | 7 | W | 0.0 | 20.9 | 0 | 20.0 | 0 | 1.7 |
| | 1/19/2022 | 38 | 29.96 | 4 | S | 0.0 | 20.9 | 0 | 19.1 | 0 | 1.8 |
| | 4/19/2022 | 50 | 29.49 | 18 | SW | 0.0 | 21.4 | 0 | 19.9 | 0 | 2.4 |
| | 7/19/2022 | 80 | 29.67 | 3 | SW | 0.0 | 20.4 | 0 | 18.5 | 0 | 3.0 |
| | 10/5/2022 | 56 | 29.85 | 5 | E | 0.0 | 21.0 | 0 | 20.4 | 0 | 1.6 |
| | 1/9/2023 | 36 | 29.84 | 3 | S | 0.0 | 21.7 | 0 | 20.6 | 0 | 6.6 |
| | Destroyed | | | | | | | | | | |

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 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|--------------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|-----|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-3D | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 20.7 | 0 | 0.8 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.2 | 0 | 18.1 | 0 | 1.1 |
| | 10/30/2018 | 52 | 29.95 | 9 | SE | 0.0 | 21.9 | 0 | 20.1 | 0 | 1.7 |
| | 1/9/2019 | 41 | 29.34 | 10 | S | 0.0 | 21.2 | 0 | 19.5 | 0 | 1.0 |
| | 4/12/2019 | 50 | 30.30 | 6 | N | 0.0 | 20.8 | 0 | 19.9 | 0 | 1.3 |
| | 7/29/2019 | 88 | 30.04 | 4 | S | 0.0 | 21.9 | 0 | 20.6 | 0 | 1.2 |
| | 10/30/2019 | 67 | 30.37 | 0 | --- | 0.0 | 21.0 | 0 | 19.4 | 0 | 1.2 |
| | 1/15/2020 | 45 | 30.13 | 2 | S | 0.0 | 21.2 | 0 | 20.6 | 0 | 1.0 |
| | 4/23/2020 | 52 | 29.95 | 3 | S | 0.0 | 21.3 | 0 | 20.1 | 0 | 1.2 |
| | 7/30/2020 | 85 | 29.87 | 5 | S | 0.0 | 20.4 | 0 | 19.6 | 0 | 1.7 |
| | 10/19/2020 | 66 | 30.23 | 3 | S | 0.0 | 20.9 | 0 | 20.2 | 0 | 1.0 |
| | 1/5/2021 | 33 | 29.75 | 6 | E | 0.0 | 20.4 | 0 | 19.9 | 0 | 1.0 |
| | 4/7/2021 | 60 | 29.91 | 5 | E | 0.0 | 21.8 | 0 | 20.6 | 0 | 0.8 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.5 | 0 | 20.2 | 0 | 0.7 |
| | 10/19/2021 | 52 | 29.85 | 10 | W | 0.0 | 20.8 | 0 | 19.2 | 0 | 2.0 |
| | 1/19/2022 | 39 | 29.96 | 5 | S | 0.0 | 20.9 | 0 | 20.2 | 0 | 0.6 |
| | 4/19/2022 | 50 | 29.49 | 20 | SW | 0.0 | 21.1 | 0 | 20.4 | 0 | 1.9 |
| | 7/19/2022 | 80 | 29.67 | 5 | SW | 0.0 | 20.4 | 0 | 19.7 | 0 | 2.1 |
| | 10/5/2022 | 56 | 29.85 | 4 | E | 0.0 | 21.0 | 0 | 20.1 | 0 | 1.8 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 19.1 | 0 | 0.9 |
| | 4/4/2023 | 50 | 30.05 | 2 | SE | 0.0 | 22.0 | 0 | 20.2 | 0 | 0.7 |
| | 7/17/2023 | 70 | 29.88 | 4 | S | 0.0 | 20.2 | 0 | 18.8 | 0 | 1.5 |
| | 10/4/2023 | 75 | 30.15 | 3 | NW | 0.0 | 20.5 | 0 | 19.2 | 0 | 3.3 |
| | 1/12/2024 | 44 | 30.08 | 6 | W | 0.0 | 21.6 | 0 | 18.4 | 0 | 2.6 |
| | 4/10/2024 | 50 | 30.50 | 5 | SE | 0.0 | 20.3 | 5 | 19.8 | 0 | 6.8 |
| | 7/29/2024 | 64 | 29.98 | 4 | W | 0.0 | 20.5 | 0 | 18.4 | 0 | 2.9 |
| | 10/21/2024 | 70 | 30.11 | 3 | SE | 0.0 | 20.5 | 0 | 20.2 | 0 | 2.0 |
| | 1/24/2025 | 30 | 29.94 | 3 | W | 0.0 | 22.3 | 0 | 20.8 | 0 | 0.6 |
| | 4/11/2025 | 42 | 30.20 | 2 | NE | 0.0 | 21.6 | 0 | 21.1 | 0 | 1.8 |

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 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|------|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-3E | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 14.9 | 0 | 5.4 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.2 | 0 | 13.7 | 0 | 5.2 |
| | 10/30/2018 | 54 | 29.94 | 12 | SSE | 0.0 | 21.7 | 0 | 13.0 | 0 | 7.4 |
| | 1/9/2019 | 41 | 29.33 | 10 | S | 0.0 | 21.3 | 0 | 14.4 | 0 | 4.8 |
| | 4/12/2019 | 50 | 30.30 | 5 | N | 0.0 | 20.8 | 0 | 15.1 | 0 | 4.8 |
| | 7/29/2019 | 102 | 30.04 | 1 | S | 0.0 | 21.5 | 0 | 13.6 | 0 | 5.4 |
| | 10/30/2019 | 67 | 30.80 | 0 | --- | 0.0 | 20.9 | 0 | 10.5 | 0 | 9.1 |
| | 1/15/2020 | 45 | 30.13 | 0 | --- | 0.0 | 21.2 | 0 | 19.5 | 0 | 2.0 |
| | 4/23/2020 | 52 | 29.95 | 3 | S | 0.0 | 21.4 | 0 | 20.3 | 0 | 1.1 |
| | 7/30/2020 | 85 | 29.87 | 5 | S | 0.0 | 20.4 | 0 | 19.6 | 0 | 3.6 |
| | 10/19/2020 | 66 | 30.23 | 2 | S | 0.0 | 20.9 | 0 | 20.3 | 0 | 4.9 |
| | 1/5/2021 | 33 | 29.75 | 4 | E | 0.0 | 20.6 | 0 | 17.8 | 0 | 3.3 |
| | 4/7/2021 | 60 | 29.91 | 5 | E | 0.0 | 21.6 | 0 | 17.4 | 0 | 2.7 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.5 | 0 | 20.1 | 0 | 0 |
| | 10/19/2021 | 53 | 29.85 | 7 | W | 0.0 | 20.9 | 0 | 18.8 | 0 | 5.1 |
| | 1/19/2022 | 38 | 29.96 | 5 | S | 0.0 | 20.7 | 0 | 18.6 | 0 | 2.2 |
| | 4/19/2022 | 50 | 29.49 | 20 | SW | 0.0 | 21.1 | 0 | 14.7 | 0 | 5.2 |
| | 7/19/2022 | 80 | 29.67 | 8 | SW | 0.0 | 20.4 | 0 | 16.9 | 0 | 5.5 |
| | 10/5/2022 | 54 | 29.85 | 3 | E | 0.0 | 21.0 | 0 | 15.9 | 0 | 4.3 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 19.7 | 0 | 3.1 |
| | 4/4/2023 | 50 | 30.05 | 2 | SE | 0.0 | 22.0 | 0 | 19.4 | 0 | 3.8 |
| | 7/17/2023 | 70 | 29.88 | 3 | S | 0.0 | 20.2 | 0 | 16.2 | 0 | 2.4 |
| | Destroyed | | | | | | | | | | |
| SG-3F | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 19.4 | 0 | 2.2 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.3 | 0 | 12.9 | 1 | 5.9 |
| | 10/30/2018 | 53 | 29.94 | 14 | SE | 0.0 | 21.8 | 0 | 5.2 | 0 | 12.8 |
| | 1/9/2019 | 41 | 29.33 | 12 | S | 0.0 | 21.3 | 0 | 19.0 | 0 | 5.1 |
| | 4/12/2019 | 49 | 30.30 | 4 | NE | 0.0 | 20.8 | 0 | 14.3 | 0 | 5.6 |
| | 7/29/2019 | 102 | 30.40 | 1 | S | 0.0 | 21.4 | 0.1 | 6 | 0 | 11.8 |
| | 10/30/2019 | 67 | 30.37 | 0 | --- | 0.0 | 20.9 | 0 | 8.7 | 0 | 10.3 |
| | 1/15/2020 | 45 | 30.13 | 2 | S | 0.0 | 21.2 | 0 | 15.2 | 0 | 3.5 |
| | 4/23/2020 | 52 | 29.94 | 1 | S | 0.0 | 21.5 | 0 | 12.1 | 0 | 7.9 |
| | 7/30/2020 | 85 | 29.87 | 10 | S | 0.0 | 20.4 | 0 | 14.3 | 0 | 6.4 |
| | 10/19/2020 | 66 | 30.23 | 2 | S | 0.0 | 20.9 | 0 | 16.5 | 0 | 9.0 |
| | 1/5/2021 | 33 | 29.75 | 5 | E | 0.0 | 20.5 | 0 | 15.0 | 0 | 5.7 |
| | 4/7/2021 | 60 | 29.91 | 3 | E | 0.0 | 21.9 | 0 | 14.8 | 0 | 5.0 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.9 | 0 | 16.9 | 0 | 9.6 |
| | 10/19/2021 | 53 | 29.85 | 7 | W | 0.0 | 20.9 | 0 | 16.2 | 0 | 7.8 |
| | 1/19/2022 | 38 | 29.96 | 5 | S | 0.0 | 20.7 | 0 | 15.9 | 0 | 3.1 |
| | 4/19/2022 | 50 | 29.50 | 18 | SW | 0.0 | 21.1 | 0 | 19.0 | 0 | 2.1 |
| | 7/19/2022 | 80 | 29.67 | 5 | SW | 0.0 | 20.4 | 0 | 17.4 | 0 | 8.7 |
| | 10/5/2022 | 54 | 29.85 | 5 | E | 0.0 | 21.0 | 0 | 14.2 | 0 | 7.4 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 15.8 | 0 | 6.2 |
| | Destroyed | | | | | | | | | | |

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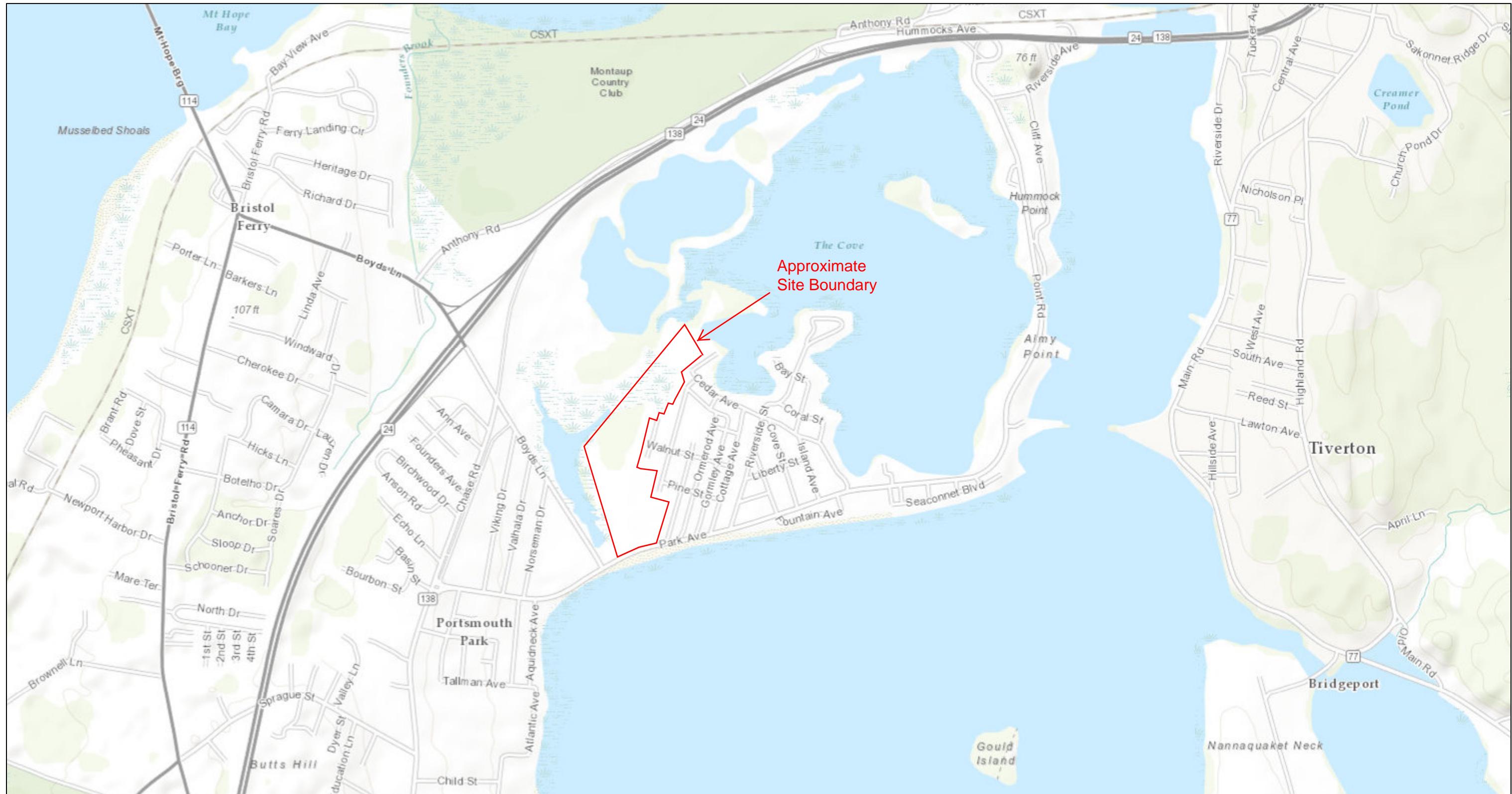
Table 3
Soil Gas Monitoring Data
Former Portsmouth Landfill
Park Avenue, Portsmouth, RI

| Location | Date | Ambient | | | | | Soil Gas | | | | |
|----------|------------|---------------------|---------------------------------------|-----------------------------------|----------------|---|--|---|---|---|-----|
| | | Temperature (°F) | Barometric Pressure (Inches Hg) | Wind Velocity (Miles Per Hour) | Wind Direction | Ambient Methane (CH ₄) (%) | Ambient Oxygen (O ₂) (%) | Soil Gas Methane (CH ₄) (%) | Soil Gas Oxygen (O ₂) (%) | Soil Gas Hydrogen Sulfide (H ₂ S) (ppm) | |
| SG-3G | 4/13/2018 | 45 | 29.92 | 6 | SSW | 0.0 | 21.9 | 0 | 20.1 | 0 | 1.4 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.6 | 0 | 16.3 | 0 | 1.8 |
| | 7/31/2018 | 85 | 30.16 | 12 | SW | 0.0 | 19.6 | 0 | 16.3 | 0 | 1.8 |
| | 10/30/2018 | 53 | 29.94 | 14 | SE | 0.0 | 21.6 | 0 | 19.1 | 0 | 2.1 |
| | 1/9/2019 | 41 | 29.33 | 10 | S | 0.0 | 21.2 | 0 | 18.9 | 0 | 1.2 |
| | 4/12/2019 | 49 | 30.30 | 4 | N | 0.0 | 20.6 | 0 | 19.8 | 0 | 1.7 |
| | 7/29/2019 | 88 | 30.04 | 4 | S | 0.0 | 21.9 | 0 | 20.9 | 0 | 1.2 |
| | 10/30/2019 | 67 | 30.37 | 0 | -- | 0.0 | 20.9 | 0 | 18.1 | 0 | 2.8 |
| | 1/15/2020 | 45 | 30.13 | 2 | S | 0.0 | 21.2 | 0 | 18.7 | 0 | 1.5 |
| | 4/23/2020 | 52 | 29.94 | 1 | S | 0.0 | 21.5 | 0 | 18.6 | 0 | 1.9 |
| | 7/30/2020 | 85 | 29.87 | 8 | S | 0.0 | 20.4 | 0 | 16.9 | 0 | 2.2 |
| | 10/19/2020 | 66 | 30.23 | 4 | S | 0.0 | 20.5 | 0 | 16.4 | 0 | 1.6 |
| | 1/5/2021 | 33 | 29.75 | 6 | E | 0.0 | 20.5 | 0 | 19.2 | 0 | 1.2 |
| | 4/7/2021 | 60 | 29.91 | 4 | E | 0.0 | 21.9 | 0 | 20.1 | 0 | 1.3 |
| | 7/27/2021 | 86 | 29.95 | 9 | S | 0.0 | 20.6 | 0 | 15.4 | 0 | 1.8 |
| | 10/19/2021 | 53 | 29.85 | 8 | W | 0.0 | 20.9 | 0 | 17.6 | 0 | 2.0 |
| | 1/19/2022 | 38 | 29.96 | 6 | S | 0.0 | 20.7 | 0 | 20.2 | 0 | 1.0 |
| | 4/19/2022 | 50 | 29.50 | 10 | SW | 0.0 | 21.1 | 0 | 19.6 | 0 | 1.0 |
| | 7/19/2022 | 80 | 29.67 | 5 | SW | 0.0 | 20.4 | 0 | 18.0 | 0 | 3.3 |
| | 10/5/2022 | 54 | 29.85 | 5 | E | 0.0 | 21.0 | 0 | 19.7 | 0 | 2.6 |
| | 1/9/2023 | 36 | 29.84 | 2 | S | 0.0 | 21.7 | 0 | 17.6 | 0 | 1.3 |
| | 4/4/2023 | 50 | 30.05 | 2 | SE | 0.0 | 22.0 | 0 | 19.1 | 0 | 1.1 |
| | 7/17/2023 | 72 | 29.88 | 2 | S | 0.0 | 20.2 | 0 | 18.4 | 0 | 3.9 |
| | 10/4/2023 | 75 | 30.15 | 3 | NW | 0.0 | 20.5 | 0 | 17.8 | 0 | 2.3 |
| | 1/12/2024 | 44 | 30.08 | 8 | W | 0.0 | 21.6 | 0 | 16.6 | 0 | 2.5 |
| | 4/10/2024 | 50 | 30.50 | 4 | SE | 0.0 | 20.3 | 0 | 18.9 | 0 | 1.2 |
| | 7/29/2024 | 64 | 29.98 | 4 | W | 0.0 | 20.5 | 0 | 17.9 | 0 | 1.8 |
| | 10/21/2024 | 70 | 30.11 | 5 | SE | 0.0 | 20.5 | 0 | 18.1 | 0 | 1.6 |
| | 1/24/2025 | 30 | 29.94 | 3 | W | 0.0 | 22.3 | 0 | 19.9 | 0 | 2.9 |
| | 4/11/2025 | 42 | 30.20 | 3 | NE | 0.0 | 21.6 | 0 | 17.4 | 0 | 1.8 |

Lower explosive limit (LEL) of methane (CH₄) is 5%
 Landfill gases measured using a Landtech Gem 2000 Plus or 5000 Plus Landfill Gas Monitor

FIGURES

RIDEM Environmental Resource Map



July 7, 2017

1:18,056

Figure 1: Site Locus Map

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS

LEGEND

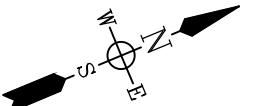
MONITORING WELL



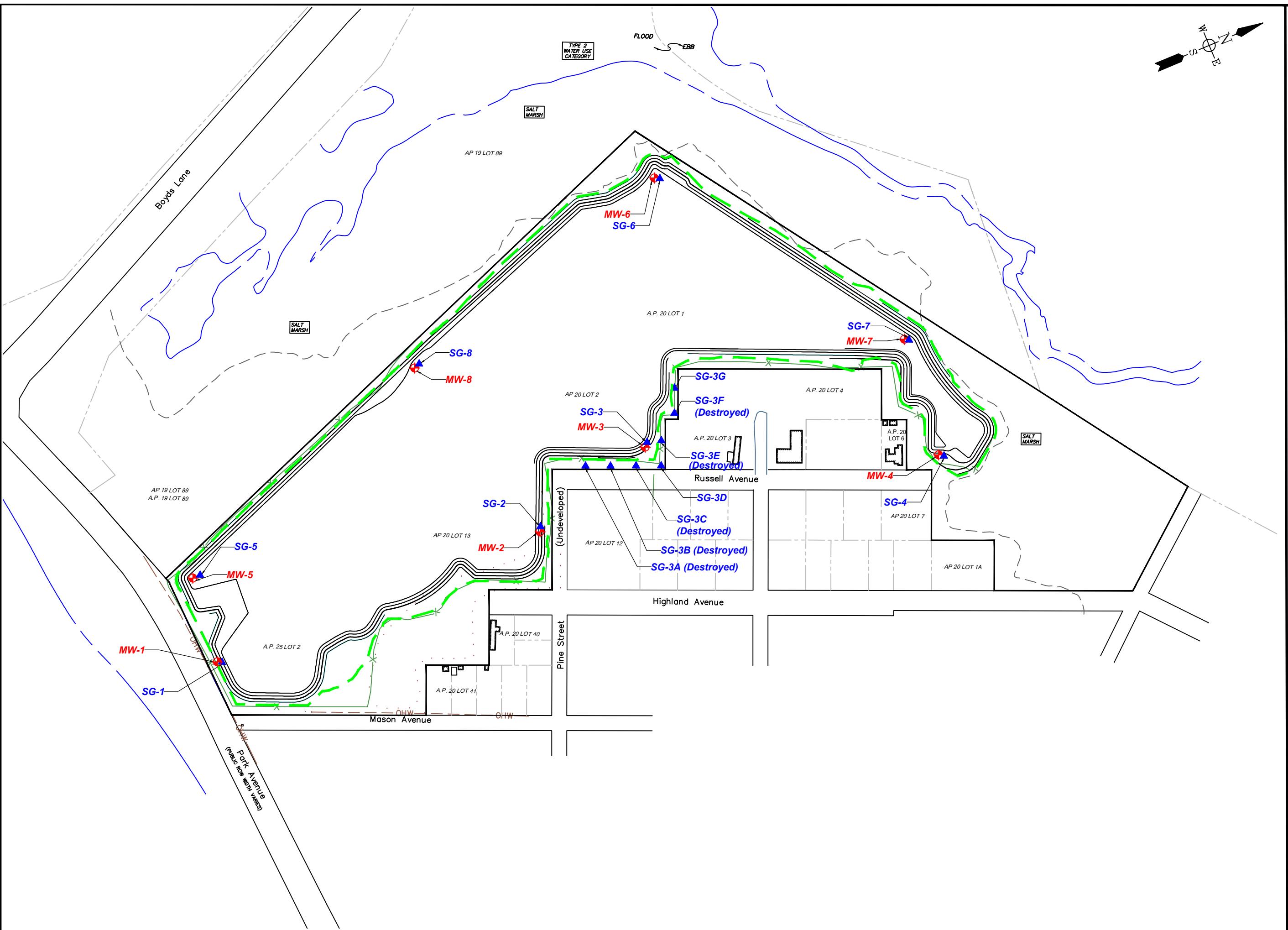
SOIL GAS POINT

APPROXIMATE CAP
BOUNDARY

SITE BOUNDARY

**MONITORING NOTES**

1. Monitoring Wells MW-1 through MW-4 and Soil Gas Points SG-1 through SG-4 installed on 4/25/2017
2. Soil Gas Points SG-3A through SG-3G installed on 4/13/2018
3. Monitoring Wells MW-5 through MW-8 and Soil Gas Points SG-5 through SG-8 installed on 11/11/2021



| DRAWN BY: | AK/BAM | FIGURE NO. |
|--------------|-----------|------------|
| CHECKED BY: | AK/PDC | |
| PROJECT NO.: | 301000351 | |
| DATE: | 5/2/2023 | |

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL RESULTS

ANALYTICAL REPORT

PREPARED FOR

Attn: Adrienne Kee
Atlas Technical Consultants LLC
400 Reservoir Ave
Suite 2C
Providence, Rhode Island 02907

Generated 4/18/2025 1:13:24 PM

JOB DESCRIPTION

Portsmouth Landfill

JOB NUMBER

620-25134-1

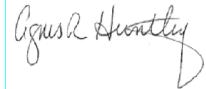
Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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4/18/2025 1:13:24 PM

Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)267-4374

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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| % | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Atlas Technical Consultants LLC
Project: Portsmouth Landfill

Job ID: 620-25134-1

Job ID: 620-25134-1

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Job Narrative 620-25134-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/11/2025 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 620-46486 exhibited % difference of > 20% for the following analyte: Vinyl chloride; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, LCS is acceptable if it meets the CCV acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-4

Lab Sample ID: 620-25134-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Dichlorodifluoromethane | 3.8 | | 2.0 | | ug/L | 1 | | 8260D | Total/NA |
| Barium | 21 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Cadmium | 2.2 | | 2.0 | | ug/L | 1 | | 6020B | Total/NA |
| Copper | 92 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 2.6 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 18 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 720 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-5

Lab Sample ID: 620-25134-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Barium | 39 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Copper | 4.0 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 1.5 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-6

Lab Sample ID: 620-25134-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Barium | 110 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Copper | 25 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 5.4 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 10 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Selenium | 11 | | 2.5 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 110 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-7

Lab Sample ID: 620-25134-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Barium | 100 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Copper | 10 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 5.5 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 5.7 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 93 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-8

Lab Sample ID: 620-25134-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 1.0 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| cis-1,2-Dichloroethene | 4.4 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Vinyl chloride | 4.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Arsenic | 7.8 | | 2.0 | | ug/L | 1 | | 6020B | Total/NA |
| Barium | 57 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Cobalt | 7.0 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 1.8 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 46 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: Trip Blank

Lab Sample ID: 620-25134-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-4
Date Collected: 04/08/25 09:35
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Dichlorodifluoromethane | 3.8 | | 2.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/17/25 16:33 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 104 | | 70 - 130 | | | | 04/17/25 16:33 | 1 |
| Toluene-d8 (Surr) | | 99 | | 70 - 130 | | | | 04/17/25 16:33 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 113 | | 70 - 130 | | | | 04/17/25 16:33 | 1 |
| Dibromofluoromethane (Surr) | | 101 | | 70 - 130 | | | | 04/17/25 16:33 | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Barium | 21 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Cadmium | 2.2 | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Copper | 92 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Lead | 2.6 | | 1.2 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Nickel | 18 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |
| Zinc | 720 | | 16 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:24 | 1 |

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Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-5

Lab Sample ID: 620-25134-2

Date Collected: 04/08/25 13:15

Matrix: Water

Date Received: 04/11/25 13:14

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | 04/17/25 16:56 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 100 | | 70 - 130 | | | 04/17/25 16:56 | | 1 |
| Toluene-d8 (Surr) | | 99 | | 70 - 130 | | | 04/17/25 16:56 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 123 | | 70 - 130 | | | 04/17/25 16:56 | | 1 |
| Dibromofluoromethane (Surr) | | 114 | | 70 - 130 | | | 04/17/25 16:56 | | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Barium | 39 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Copper | 4.0 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Lead | 1.5 | | 1.2 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Nickel | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |
| Zinc | ND | | 16 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:31 | 1 |

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Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-6

Lab Sample ID: 620-25134-3

Date Collected: 04/08/25 11:10
 Date Received: 04/11/25 13:14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/17/25 17:19 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 103 | | 70 - 130 | | | | 04/17/25 17:19 | 1 |
| Toluene-d8 (Surr) | | 100 | | 70 - 130 | | | | 04/17/25 17:19 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 116 | | 70 - 130 | | | | 04/17/25 17:19 | 1 |
| Dibromofluoromethane (Surr) | | 109 | | 70 - 130 | | | | 04/17/25 17:19 | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-----|------|---|----------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Barium | 110 | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | | 04/11/25 18:44 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Copper | 25 | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Lead | 5.4 | | 1.2 | | ug/L | | | 04/11/25 18:44 | 1 |
| Nickel | 10 | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Selenium | 11 | | 2.5 | | ug/L | | | 04/11/25 18:44 | 1 |
| Silver | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Zinc | 110 | | 16 | | ug/L | | | 04/11/25 18:44 | 1 |

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-7

Lab Sample ID: 620-25134-4

Date Collected: 04/08/25 10:05

Matrix: Water

Date Received: 04/11/25 13:14

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | 04/17/25 17:42 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 101 | | 70 - 130 | | | 04/17/25 17:42 | | 1 |
| Toluene-d8 (Surr) | | 99 | | 70 - 130 | | | 04/17/25 17:42 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 114 | | 70 - 130 | | | 04/17/25 17:42 | | 1 |
| Dibromofluoromethane (Surr) | | 103 | | 70 - 130 | | | 04/17/25 17:42 | | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Barium | 100 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Copper | 10 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Lead | 5.5 | | 1.2 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Nickel | 5.7 | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |
| Zinc | 93 | | 16 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:36 | 1 |

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-8

Lab Sample ID: 620-25134-5

Date Collected: 04/08/25 12:20

Matrix: Water

Date Received: 04/11/25 13:14

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| 1,1-Dichloroethane | 1.0 | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| cis-1,2-Dichloroethene | 4.4 | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Vinyl chloride | 4.5 | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/17/25 18:05 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | | 70 - 130 | | | | 04/17/25 18:05 | 1 |
| Toluene-d8 (Surr) | 98 | | | 70 - 130 | | | | 04/17/25 18:05 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | | 70 - 130 | | | | 04/17/25 18:05 | 1 |
| Dibromofluoromethane (Surr) | 105 | | | 70 - 130 | | | | 04/17/25 18:05 | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|-----|------|---|----------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Arsenic | 7.8 | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Barium | 57 | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | | 04/11/25 18:44 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Cobalt | 7.0 | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Copper | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Lead | 1.8 | | 1.2 | | ug/L | | | 04/11/25 18:44 | 1 |
| Nickel | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | | 04/11/25 18:44 | 1 |
| Silver | ND | | 2.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | | 04/11/25 18:44 | 1 |
| Zinc | 46 | | 16 | | ug/L | | | 04/11/25 18:44 | 1 |

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: Trip Blank
Date Collected: 04/08/25 00:00
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/17/25 12:44 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 104 | | 70 - 130 | | | | 04/17/25 12:44 | 1 |
| Toluene-d8 (Surr) | | 98 | | 70 - 130 | | | | 04/17/25 12:44 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 111 | | 70 - 130 | | | | 04/17/25 12:44 | 1 |
| Dibromofluoromethane (Surr) | | 101 | | 70 - 130 | | | | 04/17/25 12:44 | 1 |

Eurofins Rhode Island

Surrogate Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|------------------|------------------------|--|-----------------|-----------------|------------------|
| | | BFB (70-130) | TOL (70-130) | DCA (70-130) | DBFM (70-130) |
| 620-25134-1 | MW-4 | 104 | 99 | 113 | 101 |
| 620-25134-2 | MW-5 | 100 | 99 | 123 | 114 |
| 620-25134-3 | MW-6 | 103 | 100 | 116 | 109 |
| 620-25134-4 | MW-7 | 101 | 99 | 114 | 103 |
| 620-25134-5 | MW-8 | 102 | 98 | 113 | 105 |
| 620-25134-6 | Trip Blank | 104 | 98 | 111 | 101 |
| LCS 620-46486/4 | Lab Control Sample | 106 | 100 | 104 | 99 |
| LCSD 620-46486/5 | Lab Control Sample Dup | 105 | 100 | 103 | 99 |
| MB 620-46486/7 | Method Blank | 103 | 98 | 110 | 100 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 620-46486/7

Matrix: Water

Analysis Batch: 46486

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | | | |
| Benzene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Chlorobenzene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Chloroethane | ND | | | | 2.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Chloroform | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| 1,4-Dichlorobenzene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Dichlorodifluoromethane | ND | | | | 2.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| 1,1-Dichloroethane | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| cis-1,2-Dichloroethene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| trans-1,2-Dichloroethene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Isopropylbenzene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Tetrachloroethene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Trichloroethene | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Vinyl chloride | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |
| Diethyl ether | ND | | | | 1.0 | | ug/L | | | 04/17/25 12:21 | 1 |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------|-----------|--------|----------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | 04/17/25 12:21 | 1 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | | | 04/17/25 12:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 130 | | | | 04/17/25 12:21 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 70 - 130 | | | | 04/17/25 12:21 | 1 |

Lab Sample ID: LCS 620-46486/4

Matrix: Water

Analysis Batch: 46486

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike | LCS | LCS | %Rec | | | |
|--------------------------|-------|--------|-----------|------|---|------|----------|
| | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | 20.0 | 19.4 | | ug/L | | 97 | 82 - 120 |
| Chlorobenzene | 20.0 | 19.4 | | ug/L | | 97 | 82 - 112 |
| Chloroethane | 20.0 | 23.5 | | ug/L | | 117 | 47 - 142 |
| Chloroform | 20.0 | 20.6 | | ug/L | | 103 | 77 - 126 |
| 1,4-Dichlorobenzene | 20.0 | 18.9 | | ug/L | | 94 | 81 - 115 |
| Dichlorodifluoromethane | 20.0 | 24.3 | | ug/L | | 122 | 21 - 147 |
| 1,1-Dichloroethane | 20.0 | 21.3 | | ug/L | | 107 | 84 - 122 |
| cis-1,2-Dichloroethene | 20.0 | 20.4 | | ug/L | | 102 | 85 - 122 |
| trans-1,2-Dichloroethene | 20.0 | 20.3 | | ug/L | | 102 | 84 - 123 |
| Isopropylbenzene | 20.0 | 19.5 | | ug/L | | 98 | 78 - 122 |
| Tetrachloroethene | 20.0 | 17.9 | | ug/L | | 89 | 78 - 124 |
| Trichloroethene | 20.0 | 19.3 | | ug/L | | 97 | 79 - 113 |
| Vinyl chloride | 20.0 | 24.4 | | ug/L | | 122 | 49 - 145 |
| Diethyl ether | 20.0 | 22.3 | | ug/L | | 111 | 74 - 119 |

| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits |
|------------------------------|--------|-----------|-----------|-----------|--------|
| | Result | Qualifier | | | |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 70 - 130 | | |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 | | |

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-46486/5

Matrix: Water

Analysis Batch: 46486

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|------|---|------|-------------|---------|-----------|
| Benzene | 20.0 | 19.3 | | ug/L | | 96 | 82 - 120 | 0 | 20 |
| Chlorobenzene | 20.0 | 19.3 | | ug/L | | 96 | 82 - 112 | 1 | 20 |
| Chloroethane | 20.0 | 23.0 | | ug/L | | 115 | 47 - 142 | 2 | 20 |
| Chloroform | 20.0 | 20.2 | | ug/L | | 101 | 77 - 126 | 2 | 20 |
| 1,4-Dichlorobenzene | 20.0 | 18.7 | | ug/L | | 93 | 81 - 115 | 1 | 20 |
| Dichlorodifluoromethane | 20.0 | 23.5 | | ug/L | | 118 | 21 - 147 | 3 | 20 |
| 1,1-Dichloroethane | 20.0 | 21.2 | | ug/L | | 106 | 84 - 122 | 1 | 20 |
| cis-1,2-Dichloroethene | 20.0 | 20.0 | | ug/L | | 100 | 85 - 122 | 2 | 20 |
| trans-1,2-Dichloroethene | 20.0 | 20.3 | | ug/L | | 102 | 84 - 123 | 0 | 20 |
| Isopropylbenzene | 20.0 | 19.2 | | ug/L | | 96 | 78 - 122 | 2 | 20 |
| Tetrachloroethene | 20.0 | 17.9 | | ug/L | | 89 | 78 - 124 | 0 | 20 |
| Trichloroethene | 20.0 | 19.2 | | ug/L | | 96 | 79 - 113 | 1 | 20 |
| Vinyl chloride | 20.0 | 23.8 | | ug/L | | 119 | 49 - 145 | 2 | 20 |
| Diethyl ether | 20.0 | 21.8 | | ug/L | | 109 | 74 - 119 | 2 | 20 |

| Surrogate | LCSD | LCSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 620-46287/1-A

Matrix: Water

Analysis Batch: 46329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46287

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Barium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Copper | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Lead | ND | | 1.2 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Nickel | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |
| Zinc | ND | | 16 | | ug/L | | 04/11/25 18:44 | 04/14/25 13:18 | 1 |

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 620-46287/2-A

Matrix: Water

Analysis Batch: 46329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46287

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|
| Antimony | 50.0 | 45.2 | | ug/L | | 90 | 85 - 115 |
| Arsenic | 50.0 | 47.3 | | ug/L | | 95 | 85 - 115 |
| Barium | 50.0 | 45.1 | | ug/L | | 90 | 85 - 115 |
| Beryllium | 50.0 | 46.9 | | ug/L | | 94 | 85 - 115 |
| Cadmium | 50.0 | 47.3 | | ug/L | | 95 | 85 - 115 |
| Chromium | 50.0 | 48.1 | | ug/L | | 96 | 85 - 115 |
| Cobalt | 50.0 | 48.7 | | ug/L | | 97 | 85 - 115 |
| Copper | 50.0 | 52.4 | | ug/L | | 105 | 85 - 115 |
| Lead | 50.0 | 48.0 | | ug/L | | 96 | 85 - 115 |
| Nickel | 50.0 | 50.5 | | ug/L | | 101 | 85 - 115 |
| Silver | 50.0 | 48.0 | | ug/L | | 96 | 85 - 115 |
| Thallium | 50.0 | 47.7 | | ug/L | | 95 | 85 - 115 |
| Vanadium | 50.0 | 46.9 | | ug/L | | 94 | 85 - 115 |
| Zinc | 50.0 | 46.3 | | ug/L | | 93 | 85 - 115 |

Lab Sample ID: 620-25134-1 MS

Matrix: Water

Analysis Batch: 46329

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 46287

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Antimony | ND | | 50.0 | 43.5 | | ug/L | | 85 | 75 - 125 |
| Arsenic | ND | | 50.0 | 46.8 | | ug/L | | 94 | 75 - 125 |
| Barium | 21 | | 50.0 | 62.0 | | ug/L | | 83 | 75 - 125 |
| Beryllium | ND | | 50.0 | 46.2 | | ug/L | | 92 | 75 - 125 |
| Cadmium | 2.2 | | 50.0 | 47.4 | | ug/L | | 90 | 75 - 125 |
| Chromium | ND | | 50.0 | 46.6 | | ug/L | | 93 | 75 - 125 |
| Cobalt | ND | | 50.0 | 46.7 | | ug/L | | 93 | 75 - 125 |
| Copper | 92 | | 50.0 | 138 | | ug/L | | 92 | 75 - 125 |
| Lead | 2.6 | | 50.0 | 48.0 | | ug/L | | 91 | 75 - 125 |
| Nickel | 18 | | 50.0 | 64.2 | | ug/L | | 92 | 75 - 125 |
| Selenium | ND | | 50.0 | 43.9 | | ug/L | | 88 | 75 - 125 |
| Silver | ND | | 50.0 | 45.8 | | ug/L | | 92 | 75 - 125 |
| Thallium | ND | | 50.0 | 45.5 | | ug/L | | 91 | 75 - 125 |
| Vanadium | ND | | 50.0 | 45.6 | | ug/L | | 91 | 75 - 125 |
| Zinc | 720 | | 50.0 | 745 | 4 | ug/L | | 51 | 75 - 125 |

Lab Sample ID: 620-25134-1 DU

Matrix: Water

Analysis Batch: 46329

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 46287

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|-----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Antimony | ND | | ND | | ug/L | | NC | 20 |
| Arsenic | ND | | ND | | ug/L | | NC | 20 |
| Barium | 21 | | 19.2 | | ug/L | | 7 | 20 |
| Beryllium | ND | | ND | | ug/L | | NC | 20 |
| Cadmium | 2.2 | | 2.17 | | ug/L | | 0.4 | 20 |
| Chromium | ND | | ND | | ug/L | | NC | 20 |
| Cobalt | ND | | ND | | ug/L | | NC | 20 |
| Copper | 92 | | 86.8 | | ug/L | | 6 | 20 |

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 620-25134-1 DU

Matrix: Water

Analysis Batch: 46329

Client Sample ID: MW-4

Prep Type: Total/NA

Prep Batch: 46287

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Lead | 2.6 | | 2.45 | | ug/L | | 7 | 20 |
| Nickel | 18 | | 17.2 | | ug/L | | 6 | 20 |
| Silver | ND | | ND | | ug/L | | NC | 20 |
| Thallium | ND | | ND | | ug/L | | NC | 20 |
| Vanadium | ND | | ND | | ug/L | | NC | 20 |
| Zinc | 720 | | 682 | | ug/L | | 5 | 20 |

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

GC/MS VOA

Analysis Batch: 46486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 620-25134-1 | MW-4 | Total/NA | Water | 8260D | 1 |
| 620-25134-2 | MW-5 | Total/NA | Water | 8260D | 2 |
| 620-25134-3 | MW-6 | Total/NA | Water | 8260D | 3 |
| 620-25134-4 | MW-7 | Total/NA | Water | 8260D | 4 |
| 620-25134-5 | MW-8 | Total/NA | Water | 8260D | 5 |
| 620-25134-6 | Trip Blank | Total/NA | Water | 8260D | 6 |
| MB 620-46486/7 | Method Blank | Total/NA | Water | 8260D | 7 |
| LCS 620-46486/4 | Lab Control Sample | Total/NA | Water | 8260D | 8 |
| LCSD 620-46486/5 | Lab Control Sample Dup | Total/NA | Water | 8260D | 9 |

Metals

Prep Batch: 46287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 620-25134-1 | MW-4 | Total/NA | Water | 3005A | 11 |
| 620-25134-2 | MW-5 | Total/NA | Water | 3005A | 12 |
| 620-25134-3 | MW-6 | Total/NA | Water | 3005A | 13 |
| 620-25134-4 | MW-7 | Total/NA | Water | 3005A | 14 |
| 620-25134-5 | MW-8 | Total/NA | Water | 3005A | 15 |
| MB 620-46287/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 620-46287/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| 620-25134-1 MS | MW-4 | Total/NA | Water | 3005A | |
| 620-25134-1 DU | MW-4 | Total/NA | Water | 3005A | |

Analysis Batch: 46329

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 620-25134-1 | MW-4 | Total/NA | Water | 6020B | 46287 |
| 620-25134-2 | MW-5 | Total/NA | Water | 6020B | 46287 |
| 620-25134-3 | MW-6 | Total/NA | Water | 6020B | 46287 |
| 620-25134-4 | MW-7 | Total/NA | Water | 6020B | 46287 |
| 620-25134-5 | MW-8 | Total/NA | Water | 6020B | 46287 |
| MB 620-46287/1-A | Method Blank | Total/NA | Water | 6020B | 46287 |
| LCS 620-46287/2-A | Lab Control Sample | Total/NA | Water | 6020B | 46287 |
| 620-25134-1 MS | MW-4 | Total/NA | Water | 6020B | 46287 |
| 620-25134-1 DU | MW-4 | Total/NA | Water | 6020B | 46287 |

Lab Chronicle

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Client Sample ID: MW-4

Date Collected: 04/08/25 09:35
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 16:33 |
| Total/NA | Prep | 3005A | | | 46287 | DJW | EET RI | 04/11/25 18:44 |
| Total/NA | Analysis | 6020B | | 1 | 46329 | JPC | EET RI | 04/14/25 13:24 |

Client Sample ID: MW-5

Date Collected: 04/08/25 13:15
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 16:56 |
| Total/NA | Prep | 3005A | | | 46287 | DJW | EET RI | 04/11/25 18:44 |
| Total/NA | Analysis | 6020B | | 1 | 46329 | JPC | EET RI | 04/14/25 13:31 |

Client Sample ID: MW-6

Date Collected: 04/08/25 11:10
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 17:19 |
| Total/NA | Prep | 3005A | | | 46287 | DJW | EET RI | 04/11/25 18:44 |
| Total/NA | Analysis | 6020B | | 1 | 46329 | JPC | EET RI | 04/14/25 13:34 |

Client Sample ID: MW-7

Date Collected: 04/08/25 10:05
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 17:42 |
| Total/NA | Prep | 3005A | | | 46287 | DJW | EET RI | 04/11/25 18:44 |
| Total/NA | Analysis | 6020B | | 1 | 46329 | JPC | EET RI | 04/14/25 13:36 |

Client Sample ID: MW-8

Date Collected: 04/08/25 12:20
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 18:05 |
| Total/NA | Prep | 3005A | | | 46287 | DJW | EET RI | 04/11/25 18:44 |
| Total/NA | Analysis | 6020B | | 1 | 46329 | JPC | EET RI | 04/14/25 13:44 |

Client Sample ID: Trip Blank

Date Collected: 04/08/25 00:00
Date Received: 04/11/25 13:14

Lab Sample ID: 620-25134-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46486 | CLR | EET RI | 04/17/25 12:44 |

Eurofins Rhode Island

Lab Chronicle

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

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Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

Laboratory: Eurofins Rhode Island

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---------------|-----------------------|-----------------------|-----------------|
| A2LA | Dept. of Defense ELAP | 7165.01 | 01-31-27 |
| Connecticut | State | PH-0824 | 06-30-26 |
| Maine | State | RI00100 | 05-09-25 |
| Massachusetts | State | M-RI907 | 06-30-25 |
| New Hampshire | NELAP | 2245 | 09-17-25 |
| New Jersey | NELAP | RI008 | 06-30-25 |
| New York | NELAP | 11393 | 03-31-26 |
| Rhode Island | State | LAI00368 | 12-31-25 |

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Eurofins Rhode Island

Method Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET RI |
| 6020B | Metals (ICP/MS) | SW846 | EET RI |
| 3005A | Preparation, Total Metals | SW846 | EET RI |
| 5030C | Purge and Trap | SW846 | EET RI |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25134-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 620-25134-1 | MW-4 | Water | 04/08/25 09:35 | 04/11/25 13:14 |
| 620-25134-2 | MW-5 | Water | 04/08/25 13:15 | 04/11/25 13:14 |
| 620-25134-3 | MW-6 | Water | 04/08/25 11:10 | 04/11/25 13:14 |
| 620-25134-4 | MW-7 | Water | 04/08/25 10:05 | 04/11/25 13:14 |
| 620-25134-5 | MW-8 | Water | 04/08/25 12:20 | 04/11/25 13:14 |
| 620-25134-6 | Trip Blank | Water | 04/08/25 00:00 | 04/11/25 13:14 |

>> Select a Laboratory or Service Center <<

Eurfins New England
646 Camp Ave
North Kingstown, RI 02852
413 789.9018

Chain of Custody Record

25134

JL

Regulatory Program DW NPDES RCRA Other: RIDEM GA GW Limits TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

| Client Contact | | Project Manager: Adrienne Kee | | Site Contact: Adrienne Kee | | Date: | COC No |
|---|--|---------------------------------|---------------------------------|--------------------------------|----------------------------|--------------------------------|--|
| Atlas dba ATC Group Services | Tel: 401.741.2183 | | | Lab Contact: Becky Mason | Carrier: | | 1 of 1 COCs |
| 10 State St, Suite 100 Woburn, MA 01801 | Analysis Turnaround Time | | | | | | TALS Project # |
| Adrienne Kee 401 741 2183 | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | | | | | Sampler |
| Project Name: Portsmouth Landfill Site Park Ave, Portsmouth RI PO # 3010000351 | TAT if different from Below | | | | | | For Lab Use Only: |
| | <input type="checkbox"/> 2 weeks | <input type="checkbox"/> 1 week | <input type="checkbox"/> 2 days | <input type="checkbox"/> 1 day | | | Walk-in Client |
| | | | | | | | Lab Sampling |
| | | | | | | | Job / SDG No |
| | | | | | | | Sample Specific Notes |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Preserved Sample Y/N |
| MW-1 | | | | G | GW | 4 | X X |
| MW-2 | | | | | | | X X |
| MW-3 | | | | | | | X X |
| MW-4 | 4/8/25 | 0935 | | G | GW | | X X |
| MW-5 | | 1315 | | | | | X X |
| MW-6 | | 1110 | | | | | X X |
| MW-7 | | 1005 | | | | | X X |
| MW-8 | | 1220 | | | | | X X |
| Trip Blank | | - | | 2 | 2 | | X X |
| Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other | | | | | | | 1,2,1,4 |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample | | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammabl <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | | | | | | <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months |
| Special Instructions/QC Requirements & Comments: Sampled by: <i>Adrienne Kee</i> <i>4/8/25</i> | | | | | | | |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Seal No. | | Cooler Temp (°C): Obs'd | | Corr'd | Therm ID No. | |
| Relinquished by: <i>Adrienne Kee</i> | Company | | Date/Time: <i>4/8/25 13:14</i> | Received by | Company <i>TestAmerica</i> | Date/Time: <i>4/8/25 13:14</i> | |
| Relinquished by: | Company | | Date/Time | Received by | Company | Date/Time | |
| Relinquished by: | Company | | Date/Time | Received in Laboratory by | Company | Date/Time | |

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

4.4 40.2 4.6 #6

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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4/18/2025

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-25134-1

Login Number: 25134

List Source: Eurofins Rhode Island

List Number: 1

Creator: Makhoul, Elie

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity is at or below background levels? | N/A | |
| The cooler's custody seal is present and intact? | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with? | N/A | |
| Samples were received on Ice? | True | |
| Containers are not broken or leaking? | True | |
| There are no samples present with short holding-time parameters? | True | |
| Quick TAT was not requested? | True | |
| COC is present? | True | |
| COC is filled out in ink and legible? | True | |
| COC is filled out completely? | True | |
| COC includes all required signatures? | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample containers have legible labels? | True | |
| COC matches up to all samples in the cooler? | True | |
| Sample ID's on containers match exactly the sample ID's on COC? | True | |
| Appropriate sample containers are used? | True | |
| Sample collection date/times are provided? | True | |
| Samples are received within Holding Time? | True | |
| Cooler Temperature is acceptable: <6 degC, with no frozen samples? | True | |
| Cooler Temperature is recorded? | True | |
| Sample bottles are completely filled? | True | |
| There is sufficient volume for all the requested analyses? | True | |
| Appropriate sample preservatives were used? | True | |
| Aqueous inorganic sample pHs are acceptable? | True | |
| Aqueous semi-volatile organics sample pHs are acceptable? | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter? | True | |
| MS/MSD was not requested and not extra volume was sent? | True | |
| Samples do not require splitting or compositing? | True | |
| Multiphase samples are not present? | True | |
| Trip Blank was not provided/required? | True | |
| A sample discrepancy report is not needed? | N/A | |

ANALYTICAL REPORT

PREPARED FOR

Attn: Adrienne Kee
Atlas Technical Consultants LLC
400 Reservoir Ave
Suite 2C
Providence, Rhode Island 02907

Generated 4/23/2025 1:17:47 AM

JOB DESCRIPTION

Portsmouth Landfill

JOB NUMBER

620-25292-1

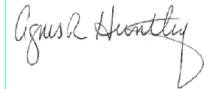
Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
4/23/2025 1:17:47 AM

Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)267-4374

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Definitions/Glossary

Client: Atlas Technical Consultants LLC

Job ID: 620-25292-1

Project/Site: Portsmouth Landfill

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |

Glossary

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

| | |
|----------------|---|
| ✓ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Atlas Technical Consultants LLC
Project: Portsmouth Landfill

Job ID: 620-25292-1

Job ID: 620-25292-1

Eurofins Rhode Island

Job Narrative 620-25292-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/18/2025 4:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

GC/MS VOA

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 620-46668 recovered outside control limits for the following analytes: Isopropylbenzene. This analyte was biased high in the LCSD and was not detected in the associated samples. According to 8260D requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Client Sample ID: MW-1

Lab Sample ID: 620-25292-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Arsenic | 2.5 | | 2.0 | | ug/L | 1 | | 6020B | Total/NA |
| Barium | 140 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 38 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-2

Lab Sample ID: 620-25292-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Barium | 70 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 1.4 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |

Client Sample ID: MW-3

Lab Sample ID: 620-25292-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Barium | 26 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Cobalt | 40 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Copper | 4.1 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Lead | 3.0 | | 1.2 | | ug/L | 1 | | 6020B | Total/NA |
| Nickel | 53 | | 4.0 | | ug/L | 1 | | 6020B | Total/NA |
| Zinc | 240 | | 16 | | ug/L | 1 | | 6020B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Client Sample ID: MW-1

Lab Sample ID: 620-25292-1

Date Collected: 04/17/25 11:17

Matrix: Water

Date Received: 04/18/25 16:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Isopropylbenzene | ND | *+ | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | 04/21/25 21:39 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 94 | | 70 - 130 | | | | 04/21/25 21:39 | 1 |
| Toluene-d8 (Surr) | | 98 | | 70 - 130 | | | | 04/21/25 21:39 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 108 | | 70 - 130 | | | | 04/21/25 21:39 | 1 |
| Dibromofluoromethane (Surr) | | 100 | | 70 - 130 | | | | 04/21/25 21:39 | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Arsenic | 2.5 | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Barium | 140 | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Copper | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Lead | ND | | 1.2 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Nickel | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |
| Zinc | 38 | | 16 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:17 | 1 |

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Client Sample ID: MW-2

Lab Sample ID: 620-25292-2

Date Collected: 04/17/25 10:15

Matrix: Water

Date Received: 04/18/25 16:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Isopropylbenzene | ND | *+ | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/21/25 22:06 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 95 | | 70 - 130 | | | | 04/21/25 22:06 | 1 |
| Toluene-d8 (Surr) | | 97 | | 70 - 130 | | | | 04/21/25 22:06 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 106 | | 70 - 130 | | | | 04/21/25 22:06 | 1 |
| Dibromofluoromethane (Surr) | | 100 | | 70 - 130 | | | | 04/21/25 22:06 | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|------------|-----------|------|-----|------|---|----------|----------------|----------------|
| Antimony | ND | | 2.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Arsenic | ND | | 2.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Barium | 70 | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Beryllium | ND | | 0.80 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Cadmium | ND | | 2.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Chromium | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Cobalt | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Copper | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Lead | 1.4 | | 1.2 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Nickel | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Selenium | ND | | 2.5 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Silver | ND | | 2.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Thallium | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Vanadium | ND | | 4.0 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |
| Zinc | ND | | 16 | | ug/L | | | 04/18/25 17:07 | 04/21/25 12:02 |

Eurofins Rhode Island

Client Sample Results

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Client Sample ID: MW-3

Lab Sample ID: 620-25292-3

Date Collected: 04/17/25 09:20

Matrix: Water

Date Received: 04/18/25 16:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Isopropylbenzene | ND | *+ | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | 04/21/25 22:32 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 95 | | 70 - 130 | | | 04/21/25 22:32 | | 1 |
| Toluene-d8 (Surr) | | 96 | | 70 - 130 | | | 04/21/25 22:32 | | 1 |
| 1,2-Dichloroethane-d4 (Surr) | | 106 | | 70 - 130 | | | 04/21/25 22:32 | | 1 |
| Dibromofluoromethane (Surr) | | 101 | | 70 - 130 | | | 04/21/25 22:32 | | 1 |

Method: SW846 6020B - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|------------|-----------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Barium | 26 | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Cobalt | 40 | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Copper | 4.1 | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Lead | 3.0 | | 1.2 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Nickel | 53 | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |
| Zinc | 240 | | 16 | | ug/L | | 04/18/25 17:07 | 04/21/25 12:15 | 1 |

Eurofins Rhode Island

Surrogate Summary

Client: Atlas Technical Consultants LLC

Job ID: 620-25292-1

Project/Site: Portsmouth Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | TOL (70-130) | DCA (70-130) | DBFM (70-130) | | | | | | |
|------------------|------------------------|-----------------|-----------------|-----------------|------------------|--|--|--|--|--|--|
| 620-25292-1 | MW-1 | 94 | 98 | 108 | 100 | | | | | | |
| 620-25292-2 | MW-2 | 95 | 97 | 106 | 100 | | | | | | |
| 620-25292-3 | MW-3 | 95 | 96 | 106 | 101 | | | | | | |
| LCS 620-46668/4 | Lab Control Sample | 98 | 96 | 99 | 98 | | | | | | |
| LCSD 620-46668/5 | Lab Control Sample Dup | 98 | 95 | 96 | 99 | | | | | | |
| MB 620-46668/7 | Method Blank | 95 | 97 | 106 | 101 | | | | | | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 620-46668/7

Matrix: Water

Analysis Batch: 46668

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Benzene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Chlorobenzene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Chloroethane | ND | | 2.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Isopropylbenzene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Tetrachloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Trichloroethene | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |
| Diethyl ether | ND | | 1.0 | | ug/L | | | 04/21/25 21:12 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|--------------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | 04/21/25 21:12 | 1 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 04/21/25 21:12 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 70 - 130 | | 04/21/25 21:12 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 70 - 130 | | 04/21/25 21:12 | 1 |

Lab Sample ID: LCS 620-46668/4

Matrix: Water

Analysis Batch: 46668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|--------------------------|----------------|---------------|------------------|------|---|------|----------|
| Benzene | 20.0 | 20.4 | | ug/L | | 102 | 82 - 120 |
| Chlorobenzene | 20.0 | 20.6 | | ug/L | | 103 | 82 - 112 |
| Chloroethane | 20.0 | 22.8 | | ug/L | | 114 | 47 - 142 |
| Chloroform | 20.0 | 21.0 | | ug/L | | 105 | 77 - 126 |
| 1,4-Dichlorobenzene | 20.0 | 20.9 | | ug/L | | 104 | 81 - 115 |
| Dichlorodifluoromethane | 20.0 | 24.4 | | ug/L | | 122 | 21 - 147 |
| 1,1-Dichloroethane | 20.0 | 19.7 | | ug/L | | 98 | 84 - 122 |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ug/L | | 99 | 85 - 122 |
| trans-1,2-Dichloroethene | 20.0 | 19.4 | | ug/L | | 97 | 84 - 123 |
| Isopropylbenzene | 20.0 | 23.7 | | ug/L | | 118 | 78 - 122 |
| Tetrachloroethene | 20.0 | 19.8 | | ug/L | | 99 | 78 - 124 |
| Trichloroethene | 20.0 | 19.4 | | ug/L | | 97 | 79 - 113 |
| Vinyl chloride | 20.0 | 22.1 | | ug/L | | 110 | 49 - 145 |
| Diethyl ether | 20.0 | 19.7 | | ug/L | | 98 | 74 - 119 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 98 | | 70 - 130 |

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QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 620-46668/5

Matrix: Water

Analysis Batch: 46668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|------|---|------|-------------|---------|-----------|
| Benzene | 20.0 | 20.7 | | ug/L | | 104 | 82 - 120 | 1 | 20 |
| Chlorobenzene | 20.0 | 20.8 | | ug/L | | 104 | 82 - 112 | 1 | 20 |
| Chloroethane | 20.0 | 23.7 | | ug/L | | 118 | 47 - 142 | 4 | 20 |
| Chloroform | 20.0 | 21.3 | | ug/L | | 107 | 77 - 126 | 2 | 20 |
| 1,4-Dichlorobenzene | 20.0 | 21.2 | | ug/L | | 106 | 81 - 115 | 1 | 20 |
| Dichlorodifluoromethane | 20.0 | 23.2 | | ug/L | | 116 | 21 - 147 | 5 | 20 |
| 1,1-Dichloroethane | 20.0 | 20.8 | | ug/L | | 104 | 84 - 122 | 5 | 20 |
| cis-1,2-Dichloroethene | 20.0 | 20.2 | | ug/L | | 101 | 85 - 122 | 3 | 20 |
| trans-1,2-Dichloroethene | 20.0 | 20.4 | | ug/L | | 102 | 84 - 123 | 5 | 20 |
| Isopropylbenzene | 20.0 | 24.6 | *+ | ug/L | | 123 | 78 - 122 | 4 | 20 |
| Tetrachloroethene | 20.0 | 20.3 | | ug/L | | 102 | 78 - 124 | 2 | 20 |
| Trichloroethene | 20.0 | 19.8 | | ug/L | | 99 | 79 - 113 | 3 | 20 |
| Vinyl chloride | 20.0 | 23.4 | | ug/L | | 117 | 49 - 145 | 6 | 20 |
| Diethyl ether | 20.0 | 17.7 | | ug/L | | 88 | 74 - 119 | 11 | 20 |

| Surrogate | LCSD | LCSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 |
| Toluene-d8 (Surr) | 95 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 |

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 620-46596/1-A

Matrix: Water

Analysis Batch: 46651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46596

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|------|-----|------|---|----------------|----------------|---------|
| Antimony | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Arsenic | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Barium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Beryllium | ND | | 0.80 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Cadmium | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Chromium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Cobalt | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Copper | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Lead | ND | | 1.2 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Nickel | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Selenium | ND | | 2.5 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Silver | ND | | 2.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Thallium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Vanadium | ND | | 4.0 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |
| Zinc | | | 16 | | ug/L | | 04/18/25 17:07 | 04/21/25 11:56 | 1 |

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 620-46596/2-A

Matrix: Water

Analysis Batch: 46651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46596

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|
| Antimony | 50.0 | 46.2 | | ug/L | | 92 | 85 - 115 |
| Arsenic | 50.0 | 46.1 | | ug/L | | 92 | 85 - 115 |
| Barium | 50.0 | 45.2 | | ug/L | | 90 | 85 - 115 |
| Beryllium | 50.0 | 45.8 | | ug/L | | 92 | 85 - 115 |
| Cadmium | 50.0 | 46.3 | | ug/L | | 93 | 85 - 115 |
| Chromium | 50.0 | 46.8 | | ug/L | | 94 | 85 - 115 |
| Cobalt | 50.0 | 47.7 | | ug/L | | 95 | 85 - 115 |
| Copper | 50.0 | 49.3 | | ug/L | | 99 | 85 - 115 |
| Lead | 50.0 | 47.0 | | ug/L | | 94 | 85 - 115 |
| Nickel | 50.0 | 47.2 | | ug/L | | 94 | 85 - 115 |
| Selenium | 50.0 | 42.6 | | ug/L | | 85 | 85 - 115 |
| Silver | 50.0 | 45.9 | | ug/L | | 92 | 85 - 115 |
| Thallium | 50.0 | 47.0 | | ug/L | | 94 | 85 - 115 |
| Vanadium | 50.0 | 46.2 | | ug/L | | 92 | 85 - 115 |
| Zinc | 50.0 | 44.1 | | ug/L | | 88 | 85 - 115 |

Lab Sample ID: 620-25292-2 MS

Matrix: Water

Analysis Batch: 46651

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 46596

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Antimony | ND | | 50.0 | 46.9 | | ug/L | | 94 | 75 - 125 |
| Arsenic | ND | | 50.0 | 48.8 | | ug/L | | 95 | 75 - 125 |
| Barium | 70 | | 50.0 | 115 | | ug/L | | 91 | 75 - 125 |
| Beryllium | ND | | 50.0 | 47.2 | | ug/L | | 94 | 75 - 125 |
| Cadmium | ND | | 50.0 | 45.8 | | ug/L | | 92 | 75 - 125 |
| Chromium | ND | | 50.0 | 47.6 | | ug/L | | 95 | 75 - 125 |
| Cobalt | ND | | 50.0 | 47.9 | | ug/L | | 96 | 75 - 125 |
| Copper | ND | | 50.0 | 51.3 | | ug/L | | 97 | 75 - 125 |
| Lead | 1.4 | | 50.0 | 48.5 | | ug/L | | 94 | 75 - 125 |
| Nickel | ND | | 50.0 | 47.1 | | ug/L | | 94 | 75 - 125 |
| Selenium | ND | | 50.0 | 44.7 | | ug/L | | 89 | 75 - 125 |
| Silver | ND | | 50.0 | 46.0 | | ug/L | | 92 | 75 - 125 |
| Thallium | ND | | 50.0 | 47.9 | | ug/L | | 96 | 75 - 125 |
| Vanadium | ND | | 50.0 | 47.5 | | ug/L | | 95 | 75 - 125 |
| Zinc | ND | | 50.0 | 57.4 | | ug/L | | 88 | 75 - 125 |

Lab Sample ID: 620-25292-2 DU

Matrix: Water

Analysis Batch: 46651

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 46596

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|-----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Antimony | ND | | ND | | ug/L | | NC | 20 |
| Arsenic | ND | | ND | | ug/L | | NC | 20 |
| Barium | 70 | | 71.3 | | ug/L | | 2 | 20 |
| Beryllium | ND | | ND | | ug/L | | NC | 20 |
| Cadmium | ND | | ND | | ug/L | | NC | 20 |
| Chromium | ND | | ND | | ug/L | | NC | 20 |
| Cobalt | ND | | ND | | ug/L | | NC | 20 |

Eurofins Rhode Island

QC Sample Results

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 620-25292-2 DU

Matrix: Water

Analysis Batch: 46651

Client Sample ID: MW-2

Prep Type: Total/NA

Prep Batch: 46596

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Copper | ND | | ND | | ug/L | | NC | 20 |
| Lead | 1.4 | | 1.39 | | ug/L | | 0.1 | 20 |
| Nickel | ND | | ND | | ug/L | | NC | 20 |
| Selenium | ND | | ND | | ug/L | | NC | 20 |
| Silver | ND | | ND | | ug/L | | NC | 20 |
| Thallium | ND | | ND | | ug/L | | NC | 20 |
| Vanadium | ND | | ND | | ug/L | | NC | 20 |
| Zinc | ND | | ND | | ug/L | | NC | 20 |

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

GC/MS VOA

Analysis Batch: 46668

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 620-25292-1 | MW-1 | Total/NA | Water | 8260D | |
| 620-25292-2 | MW-2 | Total/NA | Water | 8260D | |
| 620-25292-3 | MW-3 | Total/NA | Water | 8260D | |
| MB 620-46668/7 | Method Blank | Total/NA | Water | 8260D | |
| LCS 620-46668/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| LCSD 620-46668/5 | Lab Control Sample Dup | Total/NA | Water | 8260D | |

Metals

Prep Batch: 46596

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 620-25292-1 | MW-1 | Total/NA | Water | 3005A | |
| 620-25292-2 | MW-2 | Total/NA | Water | 3005A | |
| 620-25292-3 | MW-3 | Total/NA | Water | 3005A | |
| MB 620-46596/1-A | Method Blank | Total/NA | Water | 3005A | |
| LCS 620-46596/2-A | Lab Control Sample | Total/NA | Water | 3005A | |
| 620-25292-2 MS | MW-2 | Total/NA | Water | 3005A | |
| 620-25292-2 DU | MW-2 | Total/NA | Water | 3005A | |

Analysis Batch: 46651

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 620-25292-1 | MW-1 | Total/NA | Water | 6020B | 46596 |
| 620-25292-2 | MW-2 | Total/NA | Water | 6020B | 46596 |
| 620-25292-3 | MW-3 | Total/NA | Water | 6020B | 46596 |
| MB 620-46596/1-A | Method Blank | Total/NA | Water | 6020B | 46596 |
| LCS 620-46596/2-A | Lab Control Sample | Total/NA | Water | 6020B | 46596 |
| 620-25292-2 MS | MW-2 | Total/NA | Water | 6020B | 46596 |
| 620-25292-2 DU | MW-2 | Total/NA | Water | 6020B | 46596 |

Lab Chronicle

Client: Atlas Technical Consultants LLC
 Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Client Sample ID: MW-1

Date Collected: 04/17/25 11:17
 Date Received: 04/18/25 16:18

Lab Sample ID: 620-25292-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46668 | CLR | EET RI | 04/21/25 21:39 |
| Total/NA | Prep | 3005A | | | 46596 | JPC | EET RI | 04/18/25 17:07 |
| Total/NA | Analysis | 6020B | | 1 | 46651 | JPC | EET RI | 04/21/25 12:17 |

Client Sample ID: MW-2

Date Collected: 04/17/25 10:15
 Date Received: 04/18/25 16:18

Lab Sample ID: 620-25292-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46668 | CLR | EET RI | 04/21/25 22:06 |
| Total/NA | Prep | 3005A | | | 46596 | JPC | EET RI | 04/18/25 17:07 |
| Total/NA | Analysis | 6020B | | 1 | 46651 | JPC | EET RI | 04/21/25 12:02 |

Client Sample ID: MW-3

Date Collected: 04/17/25 09:20
 Date Received: 04/18/25 16:18

Lab Sample ID: 620-25292-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 46668 | CLR | EET RI | 04/21/25 22:32 |
| Total/NA | Prep | 3005A | | | 46596 | JPC | EET RI | 04/18/25 17:07 |
| Total/NA | Analysis | 6020B | | 1 | 46651 | JPC | EET RI | 04/21/25 12:15 |

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

Laboratory: Eurofins Rhode Island

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---------------|-----------------------|-----------------------|-----------------|
| A2LA | Dept. of Defense ELAP | 7165.01 | 01-31-27 |
| Connecticut | State | PH-0824 | 06-30-26 |
| Maine | State | RI00100 | 05-09-25 |
| Massachusetts | State | M-RI907 | 06-30-25 |
| New Hampshire | NELAP | 2245 | 09-17-25 |
| New Jersey | NELAP | RI008 | 06-30-25 |
| New York | NELAP | 11393 | 03-31-26 |
| Rhode Island | State | LAI00368 | 12-31-25 |

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Method Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

| Method | Method Description | Protocol | Laboratory |
|--------|-------------------------------------|----------|------------|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET RI |
| 6020B | Metals (ICP/MS) | SW846 | EET RI |
| 3005A | Preparation, Total Metals | SW846 | EET RI |
| 5030C | Purge and Trap | SW846 | EET RI |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Portsmouth Landfill

Job ID: 620-25292-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 620-25292-1 | MW-1 | Water | 04/17/25 11:17 | 04/18/25 16:18 |
| 620-25292-2 | MW-2 | Water | 04/17/25 10:15 | 04/18/25 16:18 |
| 620-25292-3 | MW-3 | Water | 04/17/25 09:20 | 04/18/25 16:18 |

>> Select a Laboratory or Service Center <<

Eurfins New England
646 Camp Ave
North Kingstown, RI 02852
413 789.9018

Chain of Custody Record

25292

| | | Regulatory Program | | <input type="checkbox"/> DW | <input type="checkbox"/> NPDES | <input type="checkbox"/> RCRA | <input type="checkbox"/> Other. | RIDEM GA GW Limits | TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica | COC No: | |
|---|------------|-------------------------------|-------------|---------------------------------|--------------------------------|--|---------------------------------|--|---|--|---|
| Client Contact | | Project Manager: Adrienne Kee | | | | | | | | 1 of 1 COCs | |
| Atlas dba ATC Group Services 10 State St, Suite 100 Woburn, MA 01801 Adrienne Kee 401.741.2183 | | Tel: 401.741.2183 | | Analysis Turnaround Time | | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | Site Contact: Adrienne Kee Lab Contact: Becky Mason | | Date: Carrier: | |
| Project Name: Portsmouth Landfill Site: Park Ave, Portsmouth RI P O # 3010000351 | | | | TAT if different from Below | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | 2 weeks 1 week 2 days 1 day | | TOTAL Cu, Pb, Ni, Se, As, Be, Cd, Cr, Co, Ag, Ti, V, Zn PerkinElmer 8260 VOCs (8260) | TALS Project #: Sampler: For Lab Use Only: Walk-in Client Lab Sampling: Job / SDG No : |
| | | | | | | | | | | Sample Specific Notes. | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Preserved Sample (Y/N) | | | | |
| -1 | MW-1 | 4/17/25 | 1117 | G | GW | 4 | X | | | | |
| -2 | MW-2 | | 1015 | | | 4 | X | | | | |
| -3 | MW-3 | | 6920 | | | 4 | X X | | | | |
| | MW-4 | | | | | | | | | | |
| | MW-5 | | | | | | | | | | |
| | MW-6 | | | | | | | | | | |
| | MW-7 | | | | | | | | | | |
| | MW-8 | | | | | | | | | | |
| | Trip Blank | | | | | | | | | | |
| Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other | | | | | | 1,2,1,4 | | | | | |
| Possible Hazard Identification: | | | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample | | | | | | | | <input type="checkbox"/> Return to Client | <input type="checkbox"/> Disposal by Lab | <input type="checkbox"/> Archive for _____ Months | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammabl <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: 2.8+0.2 3.0 #6 | | | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No. | | Cooler Temp (°C): Obs'd | | Corr'd | | Therm ID No: | | | |
| Relinquished by: <i>Samuel Costa</i> | | Company: <i>ETI</i> | | Received by: <i>ETI</i> | | Company: <i>ETI</i> | | Date/Time: <i>4/18/25 10:45</i> | | | |
| Relinquished by: <i>Samuel Costa</i> | | Company: <i>ETI</i> | | Date/Time: <i>4/18/25 16:18</i> | | Received by: <i>Samuel Costa</i> | | Company: <i>ETI</i> Date/Time: <i>4/18/25 16:18</i> | | | |
| Relinquished by: <i>Samuel Costa</i> | | Company: <i>ETI</i> | | Date/Time | | Received in Laboratory by: | | Company | | | |

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-25292-1

Login Number: 25292

List Source: Eurofins Rhode Island

List Number: 1

Creator: Makhoul, Elie

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity is at or below background levels? | N/A | |
| The cooler's custody seal is present and intact? | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with? | N/A | |
| Samples were received on Ice? | True | |
| Containers are not broken or leaking? | True | |
| There are no samples present with short holding-time parameters? | True | |
| Quick TAT was not requested? | True | |
| COC is present? | True | |
| COC is filled out in ink and legible? | True | |
| COC is filled out completely? | True | |
| COC includes all required signatures? | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample containers have legible labels? | True | |
| COC matches up to all samples in the cooler? | True | |
| Sample ID's on containers match exactly the sample ID's on COC? | True | |
| Appropriate sample containers are used? | True | |
| Sample collection date/times are provided? | True | |
| Samples are received within Holding Time? | True | |
| Cooler Temperature is acceptable: <6 degC, with no frozen samples? | True | |
| Cooler Temperature is recorded? | True | |
| Sample bottles are completely filled? | True | |
| There is sufficient volume for all the requested analyses? | True | |
| Appropriate sample preservatives were used? | True | |
| Aqueous inorganic sample pHs are acceptable? | True | |
| Aqueous semi-volatile organics sample pHs are acceptable? | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter? | True | |
| MS/MSD was not requested and not extra volume was sent? | True | |
| Samples do not require splitting or compositing? | True | |
| Multiphase samples are not present? | True | |
| Trip Blank was not provided/required? | True | |
| A sample discrepancy report is not needed? | N/A | |