



14 February 2025

TECHNICAL MEMORANDUM

TO: Michael Belveg, NYSDEC Project Manager

FROM: Emily Cummings, EA Project Manager

SUBJECT: FINAL – Pilot Study Work Plan
Contract/Work Assignment No: D009806-32
Zip Zip Mini Market, Syracuse, New York
Site No. B00075

EA Engineering and Geology, P.C. and its affiliate EA Science and Technology (EA) was tasked by the New York State Department of Environmental Conservation (NYSDEC), under Work Assignment Number (No.) D009806-32 to conduct a pre-design investigation (PDI), pilot study, and remedial design at the Zip Zip Mini Market Site (No. B00075) (Site) in the City of Syracuse, Onondaga County, New York (**Figure 1**).

1. SITE INFORMATION

The Site is 1.14 acres, identified as tax parcel 031.-08-02.0, and is owned by the City of Syracuse (**Figure 1**). The property, located at 1410 Erie Boulevard East, is zoned for commercial use and is currently used as a parking area. Topography at the Site is relatively flat, and the ground surface is hard, compact soil and gravel with some areas paved in asphalt. Previous reports stated that perched groundwater was encountered within non-native fill, and shallow groundwater was encountered at a depth of approximately 14 to 18 feet below ground surface (bgs). Groundwater flow direction at the Site was documented to generally flow to the north (C&S Engineers, Inc. [C&S] 2019).

Until 1997, the Site was used as a retail gasoline business prior to a fire that destroyed the service building. Contamination at the Site is believed to be the result of leaking underground storage tanks. Further description of site geology and background are included in the PDI Letter Work Plan (EA 2023a).

1.1 LIMITED SITE HISTORY

A site investigation completed in 2000 included 21 test pits, 6 soil borings, and the installation of 4 monitoring wells. Petroleum impacts were noted in soil and groundwater, and more than 2 feet of free product were observed in one monitoring well. The underground storage tanks and remaining soil contamination were removed during the first Interim Remedial Measure (IRM), which was completed in 2005. A second IRM was completed in 2008 to excavate two additional hot spot areas (C&S 2008).

A remedial investigation (RI) completed in 2019 demonstrated evidence of petroleum impacts including detectable photoionization detector (PID) readings (up to 60 parts per million), staining, and petroleum odors. These impacts were noted in subsurface soil as well as groundwater where a petroleum sheen and an odor were observed. The nature and extent of contamination was previously understood to consist of a methyl tertiary-butyl ether (MTBE) and benzene, toluene, ethylbenzene, and xylenes (BTEX) plume associated with both groundwater and soil located at the Site. The greatest concentrations were located near the northeastern extent of the property around historic TW-1 and at the western extent around (TW-2 and MW-4). An overview of RI sample results is presented on Figure 3 of the RI Report (C&S 2019).

1.2 RECORD OF DECISION

The Record of Decision (ROD) issued in March 2020 contains the following remedy elements (NYSDEC):

- A remedial design program will be implemented to provide the necessary details for construction, operation, optimization, maintenance, and monitoring of the remedial program.
- Regrade with and place cover to allow for commercial use of the Site in areas where the top 1 foot of exposed soil exceeds the Commercial Soil Cleanup Objectives (SCOs).
- Injection of an in situ chemical oxidant (ISCO) to treat contaminants in groundwater over an approximate 300-square foot area where gasoline-related compounds are elevated in groundwater. Monitoring will be required upgradient, downgradient, and within the treatment zone.
- Pilot scale implementation of the groundwater remedy to define design parameters.
- Imposition of institutional controls in the form of an environmental easement restricting groundwater use, zoning of property for commercial use, and compliance with Site Management Plan.
- A Site Management Plan will be implemented as part of the remedy to continue appropriate site monitoring and institutional/engineering controls at the Site.

This work plan presents the details for the pilot study.

2. PRE-DESIGN INVESTIGATION SUMMARY

A PDI was conducted by EA in September 2023 to further refine the extent of groundwater and subsurface soil contamination. A brief summary of the results is provided herein. Further descriptions of field activities and results are presented in the PDI Report (EA 2024). Soil borings and monitoring wells were installed onsite and in adjacent off-site areas. Groundwater and soil samples were collected and analyzed for site contaminants of concern (COCs) (gasoline-related compounds including BTEX and MTBE), semi-volatile organic compounds (SVOCs), metals,

herbicides, pesticides, and polychlorinated biphenyls (PCBs). Subsurface soil samples collected from the water-table interface were below Commercial SCOs for VOCs, SVOCs, metals, herbicides, pesticides, and PCBs.

Groundwater concentrations of MTBE exceeded New York State Ambient Water Quality Standard (AWQS) in monitoring wells TW-2, MW-EA-1R, and MW-EA-4R suggesting that MTBE impacts extend from the western section of the Site to the east near MW-EA-1R. MTBE was also detected in wells MW-EA-3R and MW-EA-5, but at concentrations below New York State AWQS. Substantial BTEX contamination was observed in MW-EA-6 (a new well installed further east than previous investigations), which suggests the BTEX plume is located further east than previously thought. Importantly, no MTBE was detected in groundwater samples collected from MW-EA-6. While MTBE concentrations have increased in the northeast portion of the Site near MW-EA-1R, MTBE contamination does not appear to have migrated to the eastern property boundary (**Figure 2**).

EA performed in situ hydraulic conductivity tests (i.e., slug tests) at three monitoring wells (MW-EA-1R, MW-EA-4R, and MW-EA-8). These tests were conducted to provide data on characteristics of the water bearing zones. The average hydraulic conductivities calculated from the three wells via the Bouwer-Rice method ranged from 2.31×10^{-5} to 6.46×10^{-5} centimeters per second, which is consistent with the geologic material observed during drilling activities (silts and clays with some fine sands). Results of the slug test indicate that subsurface material has low conductivity, which is corroborated by the observation of slow recharge noted during well development and groundwater sampling activities.

A supplemental PDI was completed by EA in July and August 2024, and a brief summary of the results is included below. Two monitoring wells, MW-EA-9 and MW-EA-10, were installed east of the Site on the adjacent DBR Plumbing Property. A groundwater sampling event was conducted in August 2024 and samples were collected from MW-EA-1R, MW-EA-4R, MW-EA-6, and the newly installed MW-EA-9, and were analyzed for VOCs. The other newly installed monitoring well, MW-EA-10, did not have enough water and was unable to be sampled. BTEX concentrations were much lower in MW-EA-6 than the previous sampling event (benzene = 0.25 J microgram(s) per liter ($\mu\text{g/L}$), toluene = non-detect [ND], ethylbenzene = 1.2 $\mu\text{g/L}$, and xylenes = 5.4 $\mu\text{g/L}$), and MTBE concentrations were lower in MW-EA-4R than the previous sampling event (MTBE = 18 $\mu\text{g/L}$) (**Table 1**). It is unclear what may have caused the decrease in COC concentrations; however, contamination remains onsite, which affirms the remedy prescribed in the ROD and the proposed pilot study. MW-EA-9, the furthest east monitoring well sampled, had low to no detections of site COCs except for MTBE with a concentration of 0.52 J $\mu\text{g/L}$, which bounds the plume to the eastern property boundary.

From the groundwater contour maps developed during the 2023 PDI, a localized flow/gradient to the east was observed near MW-EA-4R and MW-EA-1R that deviated from the regional groundwater flow direction to the north/northwest. The groundwater contour map from the supplemental PDI indicates that there is still a small eastward gradient near MW-EA-1R that is less pronounced than previously thought. Additional details are included in the Supplemental PDI Report submitted to NYSDEC November 2024 (EA 2024).

3. IN SITU CHEMICAL OXIDATION AMENDMENT

The chosen reagent for this pilot study is PersulfOx, which is a sodium persulfate based oxidant sold by Regenesis. Of available oxidants, persulfate is expected to perform favorably with more recalcitrant contaminants such as MTBE. Persulfate is a common oxidant used to produce sulfate radicals that will oxidize contaminants to become more innocuous byproducts. Typically, sodium persulfate requires the addition of an activator such as heat, hydrogen peroxide, or base, which can introduce additional health and safety risks. The PersulfOx product uses a proprietary built-in catalyst, which does not require the addition of a separate activator.

Dosages for the pilot study injections were based primarily on treatability study results, as described in Section 4. The treatability study was conducted to test the quantity and dosages on site COCs and to determine the most effective product dosage. The safety data sheet (SDS) for PersulfOx is provided as **Attachment A**.

4. TREATABILITY TESTING RESULTS SUMMARY

A treatability study was performed by Loureiro Engineering Associates (Loureiro) using site groundwater and soil to evaluate a range of potential oxidant dosages (PersulfOx) to determine which dosage best oxidized the full suite of site COCs. Regenesis, the vendor of PersulfOx, used site-specific data collected during the PDI to provide a baseline dosing of 13 percent PersulfOx. A range of dosages were investigated because BTEX compounds and MTBE are expected to have different oxidation rates; and therefore, it was important to collect data on the effectiveness of the chosen oxidant at reducing each site COC. The treatability test summary report is included as **Attachment B**.

Approximately 15 pounds of soil were collected from MW-EA-1R and MW-EA-4R during the PDI drilling activities conducted on 13 September 2023. Five liters of groundwater were collected from MW-EA-1R and MW-EA-4R on 26 September 2024. Following receipt of analytical results from the PDI groundwater samples collected in September 2024, it was determined that MW-EA-6 had high concentrations of BTEX that were otherwise not present in site wells. An additional 3 liters of groundwater were collected from MW-EA-6 on 18 December 2024 following receipt of sample results that indicated MW-EA-6 was the monitoring well with the highest BTEX concentrations. It is important to note that groundwater from MW-EA-6 was combined with soil from MW-EA-1R to specifically evaluate oxidant effectiveness on the presence of high BTEX concentrations. Higher BTEX concentrations were observed at MW-EA-6 after the submittal of MW-EA-1R groundwater for use in the treatability test, and it was decided that MW-EA-6 would provide valuable information on BTEX oxidation rates compared to the lower concentrations observed at MW-EA-1R. Site materials were shipped to Loureiro where they were stored under refrigeration until a soil slurry was prepared for use in the sacrificial microcosm reactors.

The bench-scale treatability study consisted of five oxidant dosages (Control – no oxidant, 0.5 time the recommended dose [6.5 percent PersulfOx], 1 time – the recommended dosage [13 percent PersulfOx], 2 times [26 percent PersulfOx], and 3 times [39 percent PersulfOx]) and the effectiveness of the varying doses were evaluated over three time points, 15 days, 30 days, and 60

days following start of the study. Extracted fluids from the reactors were analyzed by a third-party laboratory for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260C. Additional analyses for oxidation-reduction potential (ORP), total oxidant demand (TOD), and pH were performed by Loureiro during sample collection. Two test conditions were prepared: Test No. 1 – MW-EA-4R groundwater and SB-4R soil, and Test No. 2 – MW-EA-6 groundwater and SB-1R soil. For Test No. 1, all reactors were spiked with MTBE and benzene to achieve a target groundwater concentration of 50 and 4,500 µg/L respectively. For Test No. 2, all reactors were spiked with MTBE to achieve a target groundwater concentration of 50 µg/L. The day 15 sampling results from control and dosed Test No. 2 reactors had lower BTEX concentrations than PDI sampling results from MW-EA-6 groundwater. Specifically for Test No. 2, following the day 15 sampling results a decision was made between EA and Loureiro to spike the remaining reactors with benzene (4,500 µg/L), toluene (4,500 µg/L), ethylbenzene (1,400 µg/L) and xylenes (7,900 µg/L) to be more representative of high concentrations expected in the MW-EA-6 area. Initial sampling of the control reactors indicated that the Test No. 1 condition had a total VOC concentration of 6,270 µg/L comprised of MTBE and benzene, while the Test No. 2 condition had a total VOC concentration of 28,759 µg/L comprised of benzene, ethylbenzene, MTBE, toluene, and xylenes.

Additionally at the 15-day study point, VOC concentrations in both control reactors (no oxidant) were measured below initial sampling results (Test No. 1 = 50 µg/L; Test No. 2 = 6.9 µg/L). The decrease in concentration was attributed to potential aerobic microbial activity. To determine whether microbial activity had addressed the contamination in the control, new “killed” controls were made where the pH was adjusted to below 2 to kill-off any microbial activity in the microcosm. The killed controls were sampled after 15 days and total VOC concentrations (Test No. 1 = 5,124 µg/L; and Test No. 2 = 17,262 µg/L) were more representative of the initial measured concentrations, indicating the measured reductions were likely associated with aerobic biodegradation.

In Test No. 1 (MW-EA-4R groundwater and soil) groundwater concentrations decreased substantially with all oxidant dosages with final total COC concentrations ranging from 24 µg/L (2 times dose) to 654 µg/L (0.5 times dose) at the Day 60 sampling event. Total COC concentrations in soil also decreased over time with Day 60 results ranging from 32 µg/kg (3 times dose) to 253 µg/kg (0.5 times dose). Total COC mass reductions were evaluated against the killed controls and overall PersulfOx performance of the four dosing schemes was comparable at all time points.

In Test No. 2 (MW-EA-6 groundwater and MW-EA-1R soil), similar to Test No. 1, groundwater concentrations decreased substantially across all dosages with final total COC concentrations ranging from 118 µg/L (3 times) to 822 µg/L (0.5 times) at the Day 60 sampling event. Total COC concentrations in soil also decreased over time with Day 60 (Day 30 following the spiking event) results ranging from 94 µg/kg (3 times) to 596 µg/kg (0.5 times). Total COC mass reductions were evaluated against the killed controls and overall PersulfOx performance of the four dosing schemes was comparable at all time points

The 1 time dosing of 13 percent PersulfOx was shown to effectively treat site COCs. Commensurate reductions in total VOCs with increased dosages were not observed. The proposed

300-square foot treatment area has an estimated effective pore volume of approximately 3,366 gallons and a 0.15 effective porosity over a 10 foot depth interval. Based on these assumptions, the total amount of product needed for the pilot study will be 1,157 pounds of PersulfOx to be mixed with approximately 942 gallons of potable water for an approximate total solution volume of 1,000 gallons.

A kinetics evaluation was performed to estimate the reaction time necessary to achieve treatment goals for benzene. As expected, the estimated time to reach treatment goals generally decreased with an increase in oxidant dosage. Estimated remedial timeframes in groundwater ranged from 245 days in the MW-EA-4R reactors with an oxidant dosage of 6.5 percent, to 98 days in the MW-EA-4R reactors with an oxidant dosage of 26 percent as well as in the MW-EA-6 reactors with an oxidant dosage of 39 percent. For soil, estimated remedial timeframes ranged from 136 days in the MW-EA-4R reactors with an oxidant dosage of 6.5 percent, to 38 days in the MW-EA-4R reactors with an oxidant dosage of 39%. Soil timeframes were shorter than groundwater timeframes as the remedial goal for benzene is higher for soil (60 µg/kg) than for groundwater (1 µg/L), and it is expected that groundwater timeframes would be prolonged by the desorption of COCs from soils into groundwater. It was noted that treatment timeframes were typically longer for the MW-EA-4R reactors compared to the MW-EA-6 reactors, which was attributed to the higher TOD observed with the groundwater from MW-EA-4R and the soil from SB-4R. TOD measurements include other non-target constituents such as natural organic matter or metals that can consume a portion of added ISCO reagent alongside the target COCs. The presence of higher TOD at MW-EA-4R may require additional reagent to achieve similar treatment timelines as what was observed in the MW-EA-6 reactors.

The conclusions from the treatability study are as follows:

- ISCO using PersulfOx is a viable remedy for both the MW-EA-4R/SB-4R and MW-EA-6/SB-1R treatment areas of the Site.
- COC treatment slightly increased with increasing oxidant concentrations for both areas, with the lowest dose of 6.5 percent weight/weight (w/w) resulting in significant reductions in COC mass (88 percent or greater) compared to the control.

5. PROPOSED PILOT STUDY

EA proposes to test ISCO implementation and delivery in the vicinity of MW-EA-1R in an approximate 300-square foot area. Given the subsurface geology (low permeability fill with substantial fines), measured hydraulic conductivity at MW-EA-1R (0.183 feet per day, which is comparable to silt or clay), and observations of recharge during well development and groundwater sampling, the introduction of an ISCO substrate is expected to be challenging. Therefore, the pilot study will follow a phased approach to limit the potential for unnecessary effort and to allow for adjustments in the field. The phased approach includes collecting additional site data for performance benchmarks and testing two delivery methods, vertical injection points (VIPs) via direct-push technology (DPT), and gravity-fed injection using MW-EA-1R.

Following the pre-pilot test activities described in Section 5.2, EA will install one temporary monitoring well (TPMW) near MW-EA-1R, collect baseline groundwater quality data, and inject PersulfOx via one VIP. TPMWs will be used to collect data needed to refine ISCO delivery methods. Field data and observations from the first TPMW and VIP will be used to determine the effort's success. If successful, additional TPMWs and VIPs will be installed around MW-EA-1R. If VIPs are not successful, EA will further test efficacy and ability to gravity feed ISCO substrate into an existing monitoring well. The following subsections detail the work plan for the proposed pilot study and **Figure 3** outlines decision logic to be used during the phased pilot study.

5.1 PERFORMANCE MONITORING OBJECTIVES

Performance monitoring and testing performed during the pilot study will enable EA to collect data that can be used for the design of a full-scale implementation. Data collected consists of field readings, field observations, and groundwater sampling events. The objectives of these performance monitoring events will be as follows:

- Pre-injection performance monitoring including low flow groundwater sampling will be utilized to establish a baseline for COC concentrations as well as water quality parameters (i.e., ORP, dissolved oxygen, total organic compound, etc.).
- In-field performance monitoring will consist of monitoring the following during injections: injection volume, injection pressure, changes to static water levels in temporary and permanent monitoring wells, and visual observations. Changes in relative pH will be monitored with disposable pH test strips. The pH of the ISCO solution is expected to be basic (greater than 7). Other water quality parameters will not be monitored to avoid damage or inaccurate readings from a field water quality meter caused by the presence of the injected oxidant.
- Post-injection performance monitoring will be conducted over several months and will include low flow groundwater sampling to determine the effectiveness of the ISCO injections as demonstrated by changes in COC concentrations and water quality parameters. The sampling schedule in the table below.

Performance Monitoring Schedule

Well ID	Prior to Pilot Test Injection (Baseline Event)	Daily During Injections (Week No. 1)	Post Pilot Test Injection (Days 15, 30, 60)	Post Pilot Test Injection (Day 90)
MW-EA-1R	O, F, VOCs	O, F	O, F, VOCs	O, F, VOCs
TPMW-1	O, F	O, F	-	-
TPMW-2	O, F	O, F	-	-
TPMW-3	O, F	O, F	-	-
TPMW-4	O, F	O, F	-	-
TPMW-5	O, F	O, F	-	-
MW-EA-3R	O, F, VOCs	O	-	O, F, VOCs
MW-EA-4R	O, F, VOCs	O	-	O, F, VOCs
MW-EA-6	O, F, VOCs	O	-	O, F, VOCs
MW-EA-9	O, F, VOCs	O	-	O, F, VOCs

Notes:

Field parameters monitored during injections will be restricted to pH measurement using disposable pH test strips.

O = Field observation and water level

F = Field parameters (dissolved oxygen, pH, ORP)

VOC = Volatile organic compound (via EPA Method 8260C)

5.2 PRE-PILOT TEST ACTIVITIES AND MOBILIZATION

5.2.1 Injection permit

Prior to the start of field work, EA will coordinate with NYSDEC to prepare and submit an Underground Injection Control Class V Permit. The Underground Injection Control notification will include information on the site-specific chemicals proposed to be injected.

5.2.2 Utility Mark-Out

EA will contact Dig Safely New York prior to mobilization. A ground-penetrating radar survey was previously completed by EA's subcontractor Ground Penetrating Radar Systems, LLC on 21 August 2023 to identify additional subsurface obstructions and utilities. A copy of the utility survey is presented in **Attachment C**.

5.2.3 Material Storage and Site Security

An area measuring approximately 15 feet by 20 feet, as shown in **Figure 2**, will be used as material storage and laydown area. The surface is gravel and will be used for storing delivered materials, water tanks, and equipment including a Geoprobe® rig and decontamination pad. EA will provide a towable trailer that will be used to store small equipment onsite and will be secured overnight.

Active work areas will be demarcated with safety cones and barrier bars, and unattended materials in the laydown area will be secured when not in use.

5.2.4 Slug Test Approximations

To estimate the rate at which the geology onsite may accept the ISCO solution, the falling head test from the previously performed slug tests were evaluated for a falling head rate. At MW-EA-1R, the falling head test used to determine the hydraulic conductivity displaced approximately 0.792 foot of water, which returned to close to the static water level after approximately 300 seconds for a rate of 0.0025 feet per second or approximately 1.5 gallons per hour. While this approximation suggests that gravity feeding may require a long period of time to achieve target volumes, it is unclear whether the small volume of water displaced by the slug test is representative of the gravity fed injection.

To further evaluate the falling head rate for a gravity fed injection, a percolation test will be performed prior to VIP injections. The percolation test will be performed using a bucket of potable water, which will be emptied into MW-EA-1R to fill the entire well volume. Water level in MW-EA-1R will be monitored with a pressure transducer/data logger placed in the well. The transducer will continuously record the water level in the monitoring well as the hydraulic head decreases. The rate determined using the percolation test will be compared with the rate determined from the falling head slug test performed in 2023, providing an estimated liquid delivery rate using gravity fed injections. This rate will be compared against the injection rate achievable with DPT to determine success or failure of VIPs.

5.3 PILOT TEST ACTIVITIES

5.3.1 Temporary Well Point Installation

To aid in monitoring the success of injections, 1-inch TPMWs will be installed around MW-EA-1R. The first TPMW will be installed approximately 10 feet from MW-EA-1R as depicted on **Figure 2**. TPMWs will be installed to refusal (anticipated 20 feet bgs) using a Geoprobe™ rig. Each TPMW will be constructed using 1-inch diameter polyvinyl chloride riser with a 0.010 slot-well screen. TPMWs will be screened over the entire saturated zone, extending from refusal to approximately 2 feet above the water table in the vadose zone. TPMWs will be installed in sequence, and the next monitoring point will not be installed unless injections were successful at the previous point or unless otherwise specified. Monitoring wells will be installed and developed following the methods described in EA Standard Operating Procedure No. 019, provided as an attachment to the Generic Field Activities Plan (EA 2023b). Soil and purge water generated during well installation and development will be stored in 55-gallon Department of Transportation drums pending waste characterization prior to disposal.

5.3.2 Preparation of Injectate Solution

The amendment to be injected into the contaminated groundwater will be an aqueous solution that includes PersulfOx and potable water. Potable water will be supplied from a nearby hydrant that will be used to fill 330-gallon cage totes and staged onsite in the laydown area. The target oxidant dosage was determined from the size of the treatment area and the groundwater analytical results from the baseline groundwater sampling event in September 2023 and confirmed by the supplementary groundwater sampling event in August 2024 as described in Section 3. In total,

1,157 pounds of PersulfOx mixed with 942 gallons of water for a total expected volume of 1,000 gallons is intended to address COC contamination in the 300-square foot area around MW-EA-1R. The injection solution will be distributed evenly among a maximum of 5 VIPs resulting in approximately 200 gallons per point (231 pounds PersulfOx per point). Injection solutions will be mixed on a temporary mixing pad prepared from polyethylene sheeting and wood planks. In the event of a spill, clean-up actions will follow the suggested procedures described on the SDS (**Attachment A**).

To mitigate the risk of preparing a large volume of oxidant solution that cannot be injected, the solution will first be prepared in small batches, about the volume planned for each vertical interval. For the smaller batches, 37 gallons of potable water will be mixed with 46.3 pounds of PersulfOx in a 55-gallon poly drum, totaling approximately 40 gallons. Mixing will be performed using a handheld paddle mixer.

If injection volumes are achieved, then the solution may be prepared in larger volumes. Using a 330-gallon cage tote, EA will mix approximately 231 pounds of PersulfOx with 200 gallons of potable water using a 2-inch trash pump.

5.3.3 In Situ Chemical Oxidation Injections via Direct Push

The vertical treatment zone proposed for this pilot test will extend from 2 feet above the water table (approximately 7 feet bgs) to the bedrock interface. EA is proposing to install a total of 5 points and complete VIPs with a bottom up approach. Two-inch internal diameter tooling with a disposal tip will be advanced to refusal (anticipated 18 feet bgs) using a DPT Geoprobe™ rig. Injectate delivery would begin at the bottom of the boring and would progress upwards in continuous 2-foot intervals across the target treatment range. A trash pump and poly hose will be used to pump injectate solution through the Geoprobe™ tooling. Flow rates and injection pressures will be monitored using in-line pressure gauges and flow meters.

The following data will be collected at each injection point and recorded in an injection log (**Attachment D**): injection point identification, depth and/or screen interval, injection date, injection start and end times, start and end totalizer readings (if possible, totalizer readings will be zeroed prior to starting injection), start, end, and maximum injection pressures, injection flow rates, and volumes of injectate.

Field staff will monitor injection pressures and flow rates in each interval. Higher pressures, lower flow rates, and/or surface daylighting will indicate finer grained/difficult injection intervals. If encountered, the drilling rods will be withdrawn 2 feet to the next treatment interval. This process will continue until each injection interval in the borehole is treated.

The injectate will be distributed evenly to the extent possible across the 5 VIPs and each 2-foot injection interval. EA plans to inject 200 gallons of solution per injection point (approximately 40 gallons per 2-foot injection interval). Given the tight geology at the Site, if a vertical interval does not take the intended volume, EA will plan to make up that volume in the subsequent intervals.

The first VIP will be located approximately 3 feet from TPMW-1 and 7 feet from MW-EA-1R. This spacing will allow EA to measure the radius of influence at both MW-EA-1R and TPMW-1. To determine whether the injected volume has reached the monitoring points, EA will monitor changes in static water level and use visual observations (PersulfOx will result in a milky-white groundwater appearance).

If the first VIP is successful as indicated by achieving the targeted injection volume, then additional temporary monitoring points will be installed and followed with additional injection points (up to 5 TPMWs and 5 VIPs total). Location of the TPMWs and VIPs will be varied to determine different radius of influences (e.g., a TPMW may be placed 10 feet from MW-EA-1R and a VIP can be placed 4 feet from the temporary well between the well and MW-EA-1R to test a radius of 4 feet and radius of 6 feet). If the VIPs are deemed unsuccessful, then the remaining PersulfOx solution will be gravity fed into MW-EA-1R over time as described in Section 5.4.

5.4 GRAVITY BASED INJECTION CONTINGENCY

If DPT injections (VIPs) are not successful, the amendment will be introduced using a gravity-fed injection into MW-EA-1R. Gravity feeding is expected to take longer than DPT injections but may allow for the injection volume to be achieved.

To gravity feed the solution, a drop tube will be prepared out of a length of 1-inch hose by adding a male 1-inch camlock hose shank to one end, which will be attached to a female camlock coupling on the container (cage tote or 55-gallon drum) with a ball valve. The 1-inch hose will be placed into MW-EA-1R ensuring the hose is above the bottom of the monitoring well. EA staff will fill the monitoring well to within 2 inches of top of well casing and will close the valve on the drum. Once the solution level drops, EA staff will reopen the valve and refill the monitoring well with the ISCO solution before closing the valve again. This process will continue until the mixed solution has been introduced into MW-EA-1R or if a field call in agreement with NYSDEC is made to abandon the gravity fed method. Gravity-fed injections will only occur while EA personnel are onsite. Additionally, the monitoring well opening and surrounding area will be monitored for any leaks or daylighting, which will immediately halt the gravity fed injection. No injection activity will occur overnight, and all materials will be secured before EA staff leave the Site.

Following completion of the gravity-fed injection, EA will flush MW-EA-1R with approximately two well volumes of potable water (chase water). Chase water is injected after an amendment to push the amendment into the formation beyond the sand pack of the monitoring well. This will also help minimize potential fouling of the well screen.

5.5 SITE RESTORATION

Following the completion of the pilot test, all TPMWs and VIPs will be decommissioned, and boreholes will be backfilled with chipped bentonite to within 6 inches of grade. The remaining 6 inches will be backfilled with crushed stone.

5.6 PROPOSED SCHEDULE

The pilot study is expected to be conducted in two phases to limit the amount of oxidant solution that would need to be disposed of if the pilot implementation method proves to be ineffective, as well as to limit the number of temporary monitoring wells installed without injection points. The total expected time needed onsite for the injection portion of the pilot study is estimated at two weeks if both phases are completed successfully. For the scope of work proposed in Sections 5.2 through 5.4 of this report, EA anticipates the following implementation schedule.

Task	Duration (days)	Anticipated Schedule
Injection Permit Application	2 days	March 2025
Percolation Test	5 days	May 2025
Utility Call-Out (DigSafe NY)	1 day	May 2025
Baseline Groundwater Sampling	2 days	May 2025
Temporary Well Installation and Development	5 days	May/June 2025
Vertical Injection Point Installation	5 days	May/June 2025
*Contingent Gravity-Fed Injection	5 days	June 2025
Site Restoration	1 day	June 2025
Performance Monitoring	90 days	June – October 2025
Laboratory Analysis and Reporting	30 days (each sample group)	June – November 2025

Note: * indicates that the gravity-fed injections will only occur if the Direct Push injections are ineffective.

5.7 REPORTING

Results of the pilot study will be used to refine the design of a full-scale ISCO treatment application. EA will summarize the results and prepare a 60 percent design deliverable inclusive of intermediate plans, specifications, and a basis of design report. EA will also prepare a draft engineer's estimate for full scale implementation.

The basis of design report, at a minimum, will include a summary of activities performed to complete the design including the PDI results and pilot study results; the nature and extent of contamination; estimated volumes and injection quantities associated with a full scale implementation design; details regarding injection plan and post-injection monitoring; and identification of permits required for performance of the remedial action.

6. REFERENCES

C&S Engineers, Inc (C&S). 2008. *Interim Remedial Measure Report*. March.

———. 2019. *Remedial Investigation Report for Former Zip Zip Mini Mart; 1410 Erie Boulevard East; Environmental Restoration Program; NYSDEC Site No. B00075*. April.

EA Engineering, Science, and Technology. 2023a. *Pre-Design Investigation Letter Work Plan*. June.

———. 2023b. *Generic Field Activities Plan*. March.

———. 2024. *Supplemental PDI Report*. November

New York State Department of Environmental Conservation (NYSDEC). 2020. *Record of Decision: Zip Zip Mini Market Site*. March.

Tables

- 1 Groundwater Sampling Results Summary (2023 and 2024)

Figures

- 1 Site Location
- 2 Proposed Temporary Monitoring Well and Injection Points
- 3 Pilot Study Decision Flow Chart

Attachments

- A PersulfOx Safety Data Sheet
- B Treatability Analytical Results – Loureiro Engineering Associates, Inc.
- C Ground Penetrating Radar Systems, LLC Summary Report
- D Injection Log – Field Form

Tables

Table 1. Groundwater Sampling Results Summary (2023 and 2024)

Location ID Sample Name Parent Sample ID Sample Date			MW-EA-1R B00075-MW-EA-1R	MW-EA-1R B00075-MW-EA-1R-082124	MW-EA-4R B00075-MW-EA-4R	MW-EA-4R B00075-MW-EA-4R-082124	MW-EA-6 B00075-MW-EA-6	MW-EA-6 B00075-MW-EA-6-082224
			9/26/2023	8/21/2024	9/26/2023	8/21/2024	9/26/2023	8/22/2024
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
VOCs (SW8260D)								
1,2,4-Trimethylbenzene	5	µg/L	42 J	160	< 0.2 U	< 1 U	2400	5.3
1,3,5-Trimethylbenzene (Mesitylene)	5	µg/L	24 J	53	< 0.15 U	< 1 U	810	3.8
2-Methyl-2-Butanol	NSL	µg/L	NS	9.3 J	NS	10 J	NS	< 5 UJ
Benzene	1	µg/L	190	50	< 0.18 U	1.6	640	0.25 J
Cyclohexane	NSL	µg/L	NS	6.2	NS	< 5 U	NS	< 5 U
Cymene	5	µg/L	0.34 J	2	< 0.13 U	< 1 U	15 J	0.17 J
Ethylbenzene	5	µg/L	40	41 J	< 0.22 U	< 1 U	1400	1.2
Isopropylbenzene (Cumene)	5	µg/L	2.8	6.5	< 0.15 U	< 1 U	95	0.27 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	1.7 J	< 10 U	< 1.3 U	< 10 U	< 53 U	2.3 J
Methylcyclohexane	NSL	µg/L	3.5	7.6	< 0.16 U	< 1 U	110	1.6
M-P-Xylene	5	µg/L	180 J	100 J	< 0.49 U	< 2 U	4300	3.9
Naphthalene	10	µg/L	4.1	12	< 0.38 U	< 2 U	750	1.0 J
N-Butylbenzene	5	µg/L	1.7	4.2	< 0.15 U	< 1 U	110	0.39 J
N-Propylbenzene	5	µg/L	4.7	18	< 0.12 U	< 1 U	320	0.57 J
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	140 J	7.4	< 0.24 U	< 1 U	2900	1.5
Sec-Butylbenzene	5	µg/L	0.37 J	2.2	< 0.13 U	< 1 U	25 J	< 1 U
Tert-Butyl Methyl Ether	10	µg/L	20	0.29 J	30	18	< 6.8 U	< 1 U
Toluene	5	µg/L	110 J	2.7	< 0.22 U	< 1 U	4500	< 1 U
Xylenes	5	µg/L	320 J	110 J	< 0.49 U	< 1 U	7200	5.4

Notes:

(1) New York State Department of Environmental Conservation Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)

µg/L = Microgram(s) per liter

J = Concentration is estimated

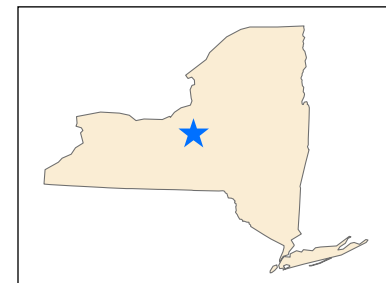
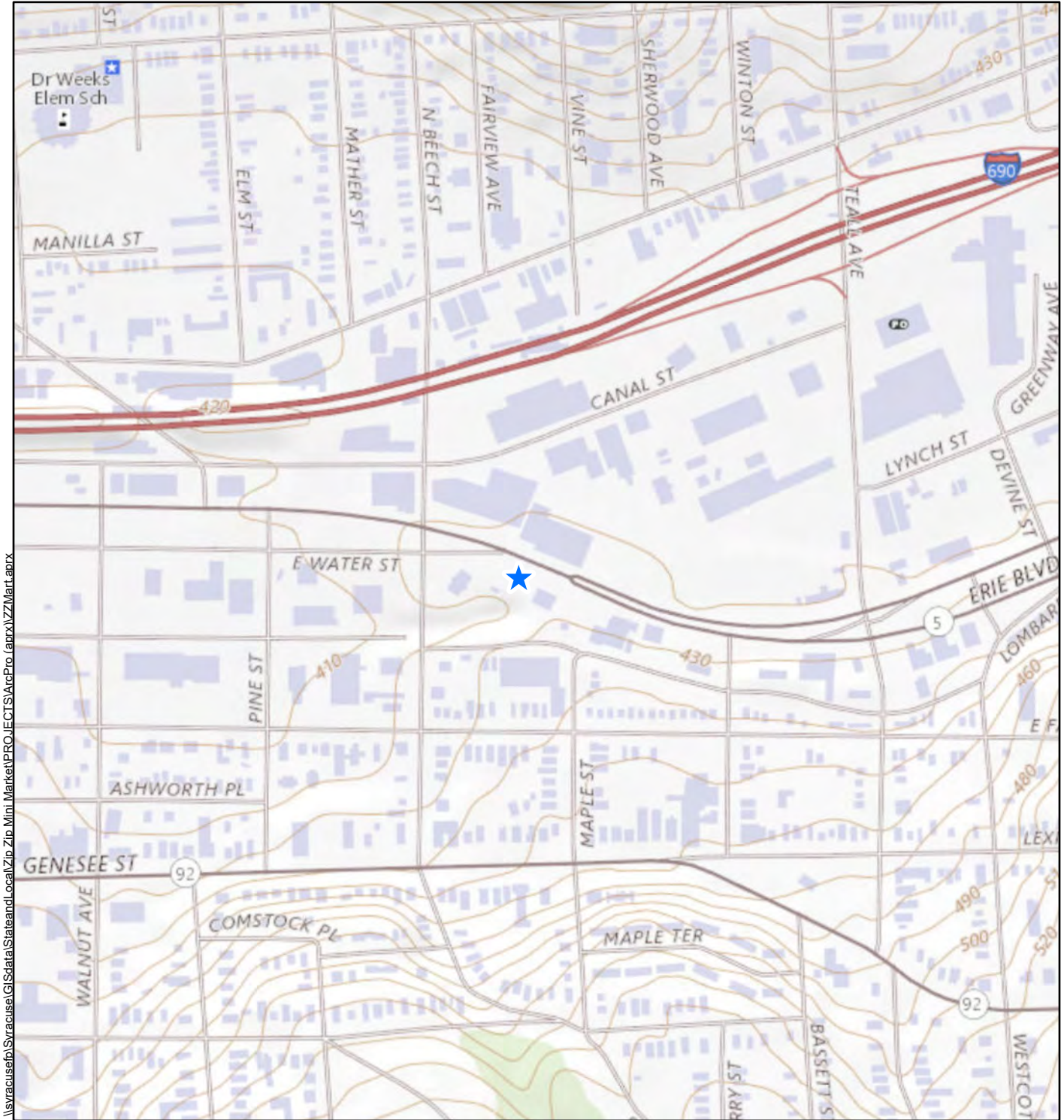
NSL = No screening level available

U = Analyte not detected

VOC = Volatile organic compound

Concentrations exceeding the screening level are bolded.

Figures



Legend

★ Site Location

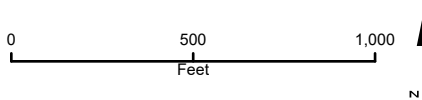
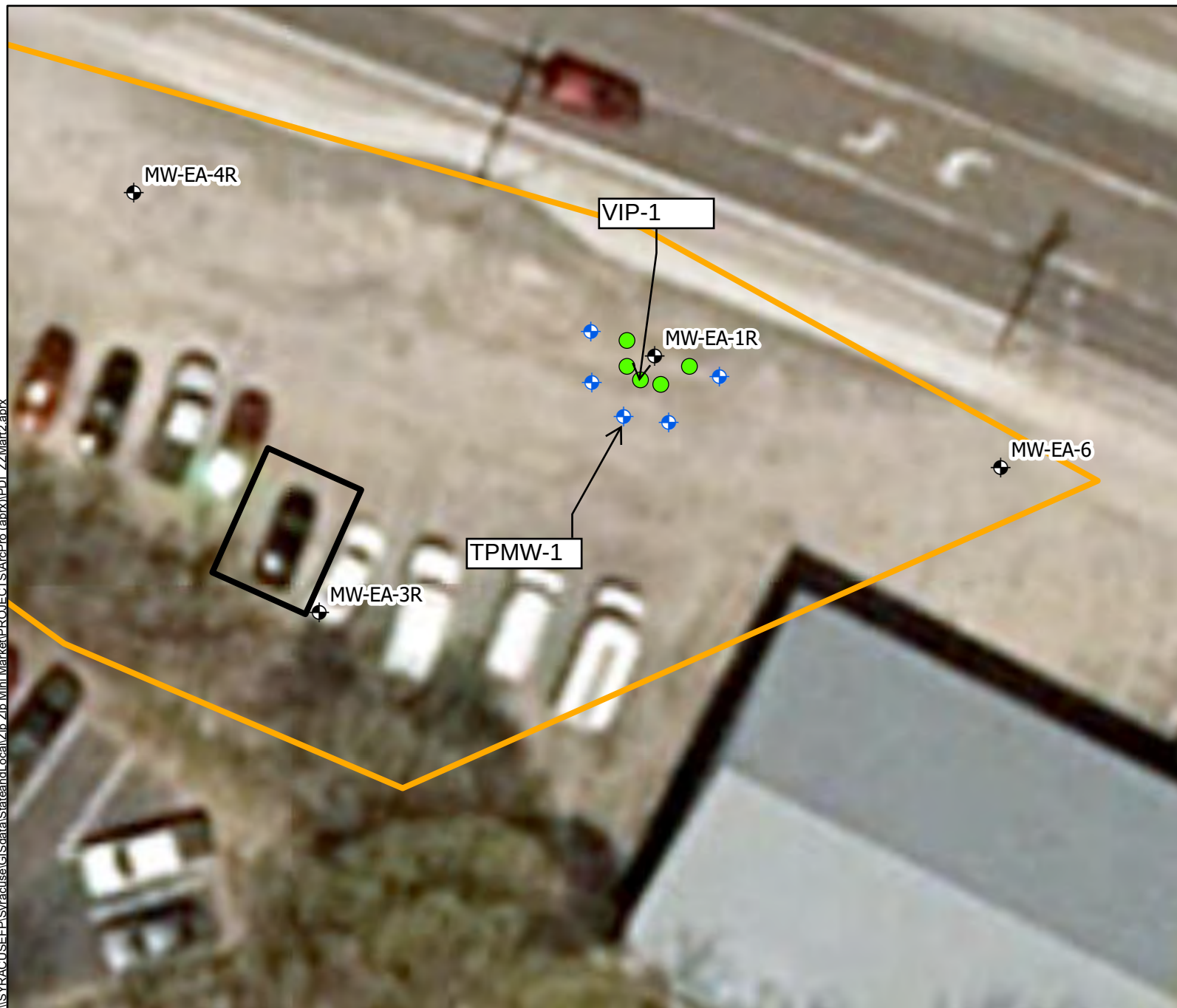


Figure 1
Site Location
 Zip Zip Mini Market
 Syracuse, New York
 NYSDEC Site No. B00075

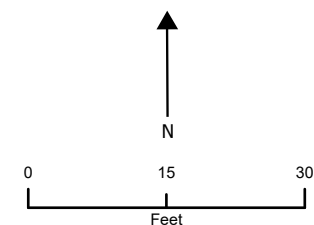
Map Date: 3/22/2024
 Projection: NAD 1983 State Plane New York Central FIPS

\\SYRACUSEFFP\Syracuse\GIS\data\StateandLocal\Zip Mini Market\PROJECTS\ArcPro (aprx)\PDL_ZZMart2.aprx



Legend

- Monitoring Well (Installed September 2023)
- Proposed Temporary Monitoring Well
- Injection Point
- Laydown Area
- Site Outline



Map Date: 11/22/2024
Projection: NAD 1983 2011 StatePlane
New York Central FIPS 3102 Ft US



Department of
Environmental
Conservation

Figure 2
Proposed Temporary Monitoring
Well and Injection Points
Zip Zip Mini Mart
Supplemental Pre-Design
Investigation

Figure 3 – Pilot Study Decision Flow Chart

Phase 1

Install 1 Temporary Monitoring Well
Inject 1 Vertical Injection Point

Target injection volume is achieved and/or injectate is observed in temp or permanent well

Phase 2

Target injection volume is not achieved

If less than 15 gal of injectate is injected, install the next temporary monitoring well and attempt a second vertical injection point.

Phase 2

If Phase 1 was successful, install additional temp wells and injection points.

If Phase 1 was unsuccessful and the additional second point did not accept injectate.

Begin gravity feeding remaining injectate into MW-EA-1R

If gravity feeding progresses at an acceptable rate, complete injection of remaining oxidant from Phase 1.

If gravity feeding progresses at too slow of a rate, dispose of remaining injectate.

Attachment A

PersulfOx Safety Data Sheet

1. Identification

Product identifier	PersulfOx®
Other means of identification	None.
Recommended use	Soil and Groundwater Remediation.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company Name	RegenesiS
Address	1011 Calle Sombra San Clemente, CA 92673
Telephone	949-366-8000
E-mail	CustomerService@regenesiS.com
Emergency phone number	CHEMTREC® at 1-800-424-9300 (International)

2. Hazard(s) identification

Physical hazards	Oxidizing solids	Category 3
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Precautionary statement

Prevention

Keep away from heat. Keep/Store away from clothing and other combustible materials. Avoid breathing dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Silicic Acid, sodium salt, sodium silicate	1344-09-8	≤10
Sodium Persulfate	7775-27-1	≥90

Composition comments All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. Contact with combustible material may cause fire. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, fog (flooding amounts).
Unsuitable extinguishing media	Do not use water unless flooding amounts are available. Material reacts with water. Do not use carbon dioxide or other gas filled fire extinguishers; they will have no effect on decomposing persulfates.
Specific hazards arising from the chemical	Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed. Combustion products may include: sulfur oxides.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
Specific methods	Cool containers exposed to flames with water until well after the fire is out. Avoid dust formation.
General fire hazards	May intensify fire; oxidizer. Contact with combustible material may cause fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Stop the flow of material, if this is without risk. Spillage collected should be monitored for signs of reaction or decomposition (fuming/smoking). If spilled material is wet, dissolve with large quantity of water.

Large Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Minimize dust generation and accumulation. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Place all material into loosely covered plastic containers for later disposal. For waste disposal, see section 13 of the SDS. Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Avoid contamination. Wear appropriate personal protective equipment (See Section 8). Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS). Recommended storage temperature: less than 40°C.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium Persulfate (CAS 7775-27-1)	TWA	0.1 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Use dust-tight, unvented chemical safety goggles when there is potential for eye contact.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Frequent change is advisable. Rubber, neoprene or PVC gloves are recommended.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Respirator type: approved respirator with P100 filters.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Free-flowing powder
Color	White.

Odor Odorless.

Odor threshold Not available.

pH 11.5 (10% suspension/water) (10 % solution, 77 °F (25 °C))

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Oxidizer.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.5 - 1.8 (68 °F (20 °C))

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Decomposition will occur upon heating.

Viscosity Not available.

Other information

Flammability Non-combustible.

10. Stability and reactivity

Reactivity Greatly increases the burning rate of combustible materials.

Chemical stability Decomposes on heating.

Possibility of hazardous reactions Oxidizing, avoid contact with reducing agents.

Conditions to avoid Heat. Contact with incompatible materials. Avoid dust formation.

Incompatible materials Acids. Bases. Combustible material. Reducing agents. Metals. Organic compounds.

Hazardous decomposition products Oxygen. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Dust may irritate respiratory system.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause allergic respiratory and skin reactions. May cause respiratory irritation.

Components	Species	Test Results
Silicic Acid, sodium salt, sodium silicate (CAS 1344-09-8)		
Acute		
Oral		
LD50	Rat	1280 mg/kg
Sodium Persulfate (CAS 7775-27-1)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
LC50	Rat	> 5.1 mg/l, 4 Hours
Oral		
LD50	Rat	895 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chronic effects.	

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Silicic Acid, sodium salt, sodium silicate (CAS 1344-09-8)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 247 mg/l, 4.2 days
Sodium Persulfate (CAS 7775-27-1)		
Aquatic		
Crustacea	EC50	Daphnia 133 mg/l, 48 hours
Fish		Bluegill (Lepomis macrochirus) 771 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	

Other adverse effects None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1479
UN proper shipping name	Oxidizing solid, n.o.s. (Sodium Persulfate Mixture)
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Label(s)	5.1
Packing group	III
Environmental hazards	
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	62, IB8, IP3, T1, TP33
Packaging exceptions	152
Packaging non bulk	213
Packaging bulk	240

IATA

UN number	UN1479
UN proper shipping name	Oxidizing solid, n.o.s. (Sodium Persulfate Mixture)
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	III
Environmental hazards	No
ERG Code	5L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (Sodium Persulfate Mixture)
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-A, S-Q
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes
	Delayed Hazard - No
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

US state regulations**US. Massachusetts RTK - Substance List**

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Sodium Persulfate (CAS 7775-27-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 12-February-2015

Revision date 02-April-2015

Version # 02

Further information HMIS® is a registered trade and service mark of the American Coatings Association (ACA).

HMIS® ratings Health: 2*
Flammability: 0
Physical hazard: 1

NFPA ratings



Disclaimer

Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Attachment B

Treatability Analytical Results – Loureiro Engineering Associates, Inc.



VIA E-mail

January 15, 2025

EA Science, and Technology

269 W. Jefferson Street
Syracuse, NY 13202

Attn: Emily Cummings

RE: ISCO Treatability Study Report

Zip Zip Mini Market Property (NYSDEC Site Number #B00075), Syracuse, New York

Dear Ms. Cummings:

LOUREIRO ENGINEERING ASSOCIATES, INC. (LEA) appreciates the opportunity to provide EA Engineering, P.C. and its affiliate EA Science, and Technology (EA) with the results of the treatability study in support of EA's activities at the Zip Zip Mini Market property in Syracuse, New York (site). The testing was conducted in accordance with the scope of work described in EA's Request for Bid Document "ISCO Treatability Study – Scope of Work", dated February 2023 and LEA's "Proposed Test Plan for ISCO Treatability Study", dated May 17, 2023, with modifications as noted in this report.

If you have any questions regarding the information presented in this report, please do not hesitate to call me at 603.778.1100.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Laurel Crawford, Laboratory Manager

cc: Thomas Robinson (EA)

ISCO TREATABILITY TEST REPORT

Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, New York

Prepared For:



EA SCIENCE, AND TECHNOLOGY
269 W. JEFFERSON STREET
SYRACUSE, NY 13202

Prepared By:



112 CORPORATE DRIVE, UNIT 2
PORTSMOUTH, NEW HAMPSHIRE 03801
TEL: (603) 778-1100

January 15, 2025

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LIST OF APPENDICES

Appendix A	Analytical Laboratory Reports

1.0 INTRODUCTION

Loureiro Engineering Associates, Inc. (LEA) was retained by EA Engineering, P.C. and its affiliate EA Science, and Technology (EA) to perform a treatability study evaluation of in situ chemical oxidation (ISCO) on groundwater and soil from the Zip Zip Mini Market property in Syracuse, New York (site). The effectiveness of ISCO using PersulfOx® was evaluated on groundwater and soil from two onsite locations impacted with contaminants of concern (COCs) including benzene, toluene, ethylbenzene, xylene (BTEX), methyl-tert-butyl ether (MTBE), naphthalene, pyrene, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene.

The main objectives of the treatability study were to:

1. Evaluate the oxidant's ability to treat the COCs in groundwater and soil. COCs evaluated in the treatability study included volatile organic compounds (VOCs) only. Semivolatile organic compound (SVOCs) were not analyzed in the treatability study (i.e., treatment of COCs pyrene, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene was not evaluated).
2. Calculate the total oxidant demand (TOD, commonly referred to as soil oxidant demand [SOD]) as the mass of product required to treat a unit mass of groundwater and soil.
3. Determine the kinetics of the oxidant's degradation of the COCs and estimate the reaction time for complete treatment, if not achieved by the end of the test duration.
4. Evaluate any potential interferences and factors affecting oxidant effectiveness and efficiency, including the identification of any negative effects such as by-product formation during ISCO reactions.

2.0 SCOPE OF WORK

The treatability testing was conducted in a series of individual batch reactors (borosilicate glass) containing groundwater and soil. Two groundwater and soil types were collected from two onsite locations for the treatability evaluation: MW-EA-4R groundwater tested with SB-4R soil, and MW-EA-6 groundwater tested with SB-1R soil. Upon receipt at LEA's treatability laboratory, the soil samples from each location were composited and homogenized as efficiently as possible to minimize volatilization of contaminants. During the homogenization, large rocks and fragments were removed. Groundwater and soil were stored at 4 degrees Celsius (°C) until the treatability study was set up.

Replicate reactors containing each groundwater and soil type were set up and amended with four concentrations of PersulfOx®, supplied by Regenesis. The PersulfOx® concentrations consisted of 0.5, 1, 2, and 3 times the vendor's recommended dose of an approximate 13% PersulfOx® weight/weight (w/w) solution. Controls were set up for each of the two groundwater / soil types and were carried through the same procedures, conditions, and test duration as the treated reactors, but contained no oxidant. The COCs in the controls and

oxidant-amended test conditions were assessed at 3 time points of 15, 30, and 60 days to evaluate the oxidant kinetics. Groundwater and soil were analyzed for VOCs using United States Environmental Protection Agency (EPA) Method 8260 by Eurofins Environment Testing New England at each time point. Soils were analyzed in duplicate for each test condition.

2.1 SCOPE OF WORK MODIFICATIONS

Modifications to the treatability study scope of work consisted of spiking the groundwater media with one or more COCs and setting up additional controls, as described in the following sections.

2.1.1 COC SPIKING

Prior to setting up the test conditions, EA requested that LEA spike the sample media to be used in the treatability testing due to lower baseline concentrations of COCs compared to those typically detected at the site. MW-EA-6 groundwater was spiked with 50 micrograms per liter ($\mu\text{g/L}$) of MTBE, and MW-EA-4R groundwater was spiked with 50 $\mu\text{g/L}$ of MTBE and 4,500 $\mu\text{g/L}$ of benzene. Following a confirmation analysis of the spiked groundwaters, all test conditions were constructed.

On Day 15 of the test duration, all Day 15 reactors were sacrificed for analysis. At that time, it was decided to spike the MW-EA-6 groundwater / SB-1R soil in the Day 30 and Day 60 reactors with additional COCs consisting of 4,500 $\mu\text{g/L}$ of benzene, 4,500 $\mu\text{g/L}$ of toluene, 1,400 $\mu\text{g/L}$ of ethylbenzene, and 7,200 $\mu\text{g/L}$ of total xylenes.

All spiking was conducted on groundwater only, as spiking on soil is more intricate and can incorporate error. The actual concentrations spiked on groundwater were slightly higher than the targeted concentrations to compensate for any volatilization during the spiking process and expected partitioning onto soil. In order to account for partitioning onto soil, the spiking calculations incorporated soil / water partitioning coefficients (K_{oc}) for each COC obtained from literature values, and an assumed fraction of organic carbon (f_{oc}) value of 0.002.

2.1.2 SET UP OF ADDITIONAL CONTROLS

An evaluation of interim results (Day 15 and/or Day 30) showed that the COCs in the controls were significantly reduced compared to starting, spiked levels. In addition, the groundwater and soil concentrations in the controls were lower than the amended test conditions for both groundwater / soil types (discussed further in Section 3.2.1). LEA has observed this phenomenon in a prior ISCO treatability study conducted for a similar site and it was suspected that aerobic biodegradation of COCs was occurring. Following discussions between EA and LEA, it was agreed that data from uncompromised controls were critical in order to accurately assess the treatment efficiency of the oxidant-amended reactors. Therefore, killed control reactors with the site media and spiked COCs were constructed but were then amended with

hydrochloric acid to lower to the pH to 2 to eliminate the presence of viable bacteria. After 15 days, the killed controls were sacrificed for analysis. Due to limitations in soil quantities, Day 30 and Day 60 controls were not constructed; the Day 15 killed control data were used for comparison to the amended test conditions at the later time points. Based on LEA's experience with similar treatability studies that included multiple time points, there have been no observed decreases in killed control concentrations at subsequent time points, attributed to other unanticipated losses such as volatilization.

The test conditions including the modifications to the scope of work are summarized below:

TEST CONDITION	TIME POINT	MW-EA-4R / SB-4R		MW-EA-6 / SB-1R ⁽¹⁾	
		GROUNDWATER VOCs ANALYSES	SOIL VOCs ANALYSES	GROUNDWATER VOCs ANALYSES	SOIL VOCs ANALYSES
Control (spiking confirmation)	Day 0	1	--	1	--
Control	Day 15	1	2	1	2
Killed Control		1	1	1	1
Dose 1 (0.5x) – 6.5% w/w		1	2	1	2
Dose 2 (1x) – 13% w/w		1	2	1	2
Dose 3 (2x) – 26% w/w		1	2	1	2
Dose 4 (3x) – 39% w/w		1	2	1	2
Control	Day 30 ⁽¹⁾	1	2	1	2
Dose 1 (0.5x) – 6.5% w/w		1	2	1	2
Dose 2 (1x) – 13% w/w		1	2	1	2
Dose 3 (2x) – 26% w/w		1	2	1	2
Dose 4 (3x) – 39% w/w		1	2	1	2
Control	Day 60 ⁽¹⁾	1	2	1	2
Dose 1 (0.5x) – 6.5% w/w		1	2	1	2
Dose 2 (1x) – 13% w/w		1	2	1	2
Dose 3 (2x) – 26% w/w		1	2	1	2
Dose 4 (3x) – 39% w/w		1	2	1	2

1. On Day 15 of the test, additional spiking was conducted on the Day 30 and Day 60 test conditions for the MW-EA-6 groundwater / SB-1R soil reactors.

3.0 TREATABILITY STUDY RESULTS

3.1 OXIDANT UTILIZATION, TOD, AND PH RESULTS

The oxidant remaining, TOD and pH data for the three time points tested for each treatment area are shown in Table 1. The data show that oxidant concentrations and pH levels gradually declined over the test duration. By Day 60 of the test, there was oxidant remaining in all test conditions available for potential treatment of COCs. As would be expected, the TOD generally increased over the test duration and in correlation with an increase in oxidant concentration. The TODs associated with the MW-EA-6 / SB-1R test conditions were much lower in comparison to the MW-EA-4R / SB-4R test conditions, despite the higher levels of COCs in the MW-EA-6 / SB-1R reactors. In LEA's experience, a majority of the oxidant demand is associated with non-target sources such as reduced minerals, naturally occurring organic compounds, and where applicable, the oxidant activator. The differences in TODs between the two areas should be taken into account for a full-scale ISCO dosing scheme.

3.2 ANALYTICAL VOC RESULTS

The VOC data used to evaluate COC treatment efficiency for each oxidant-amended test condition are summarized on Tables 2A through 3C, with analytical reports provided in Appendix A. Tables 2A and 2B show detected compounds for groundwater and soil, respectively, from MW-EA-4R / SB-4R. Table 2C presents a mass balance evaluation for the total COCs in MW-EA-4R groundwater / SB-4R soil. Tables 3A and 3B show detected compounds for groundwater and soil, respectively, from MW-EA-6 / SB-1R. Table 3C presents a mass balance evaluation for the total COCs in MW-EA-6 groundwater / SB-1R soil. A discussion of the results and interpretations are presented in the following sections.

3.2.1 CONTROL DATA EVALUATION

As mentioned in Section 2.1.2, an evaluation of interim results (Day 15 and Day 30) showed that the COCs in the controls from both areas were significantly reduced compared to starting, spiked levels. In addition, the groundwater and soil concentrations in the controls were lower than the amended test conditions, despite the controls receiving the same amount of spiked groundwater. After conducting some quality assurance/quality control (QA/QC) checks, it was speculated that the soils contain viable bacteria capable of degrading the site VOCs or that abiotic processes could be degrading the compounds. If biodegradation occurred, the oxidant-amended test conditions would not be expected to show the same degree of degradation as the controls, as the higher pH and presence of oxidant is not an environment conducive to bacteria. In a prior ISCO treatability conducted by LEA for a similar site, VOCs concentrations in the controls were unexpectedly lower than the test reactors amended with oxidant, and subsequently, additional testing was conducted to evaluate the potential for biodegradation.

As the Record of Decision (ROD) for the site remedy is ISCO, the treatability study goal was to evaluate the ability of ISCO to treat the site COCs, exclusive of other mechanisms that could be degrading COCs. As such, obtaining data from uncompromised controls was critical in order to accurately assess the treatment efficiency of the oxidant-amended reactors. Additional controls for both groundwater / soil types were therefore constructed and spiked with COCs but were then “killed” by adding hydrochloric acid to lower the pH to 2 to eliminate the presence of viable bacteria.

The results of the killed control reactors, sacrificed for analysis after 15 days, indicated the COC concentrations were in general agreement with the spiked concentrations of COCs following any expected partitioning onto soil. The killed control data was therefore used for comparison to the oxidant-amended test conditions.

3.2.2 OXIDANT TREATMENT EVALUATION

MW-EA-4R Groundwater / SB-4R Soil

The VOC data presented on Table 2A for MW-EA-4R groundwater and Table 2B for SB-4R soil show similar trends in that COC concentrations in the treated test conditions generally decreased over the test duration. As shown on Table 2C, COC concentrations are also noted to generally decrease with an increase in oxidant dosing. All oxidant doses tested resulted in percent reductions in total COCs (groundwater + soil) ranging from 87% to 99% compared to the control. A majority of the COC mass was degraded within the first 15 days of the test in the treated reactors. Despite the decreasing trends in concentrations and percent reductions in total COCs achieved, one or more COCs remained above groundwater and soil cleanup criteria in all four oxidant doses tested.

MW-EA-6 Groundwater / SB-1R Soil

The VOC data for the MW-EA-6 groundwater / SB-1R soil shown similar trends compared to MW-EA-4R groundwater / SB-4R soil. The VOC data presented on Table 3A for MW-EA-6 groundwater and Table 3B for SB-1R soil show an overall decreasing trend in COC concentrations in the oxidant-amended test conditions over the test duration. COC concentrations are also noted to generally decrease with an increase in oxidant dosing. All oxidant doses tested resulted in percent reductions in total COCs (groundwater + soil) ranging from 88% to 99% compared to the control, with a majority of the COC mass degraded within the first 15 days of the test (Table 3C). Despite the decreasing trends in concentrations and percent reductions in total COCs achieved, one or more COCs remained above groundwater and soil cleanup criteria in all four oxidant doses tested.

3.2.3 OXIDANT TREATMENT KINETICS

One of the treatability objectives was to evaluate the kinetics of the oxidant’s degradation of the COCs and estimate the reaction time for complete treatment, if not achieved by the end of the test duration. Since both treatment areas showed one or more COCs remaining above

cleanup criteria by the end of the test, an evaluation of kinetics was conducted to estimate the treatment timeframe needed to reach treatment goals.

Total COC concentration data from each time point and for each oxidant dose were used to calculate the degradation rate half-lives. The resulting half-lives were used to estimate the time it would take for cleanup criteria to be reached, assuming residual oxidant conditions are maintained. As a conservative assumption, the cleanup criteria for benzene was used in the calculations for groundwater (1 µg/L) and soil (60 µg/kg). ISCO by-products (discussed in Section 3.2.4) were not included in the total COC calculations. The resulting calculations for each treatment area are summarized in the table below.

ESTIMATED TIMES TO REACH COC TREATMENT GOALS				
PERSULFOx® TREATMENT DOSE (% w/w)	MW-EA-4R / SB-4R		MW-EA-6 / SB-1R ⁽¹⁾	
	GROUNDWATER (DAYS)	SOIL (DAYS)	GROUNDWATER (DAYS)	SOIL (DAYS)
6.5%	245	136	148	83
13%	155	75	122	63
26%	98	50	114	54
39%	107	38	98	47

The estimated times to reach treatment goals generally decrease with an increase in oxidant concentration, as would be expected. For the 6.5% and 13% PersulfOx® dosages, the treatment timeframes are longer for the MW-EA-4R / SB-4R treatment area compared to the MW-EA-6 / SB-1R treatment area, which is likely due to the higher TODs associated with the MW-EA-4R groundwater / SB-4R soil. As mentioned previously (Section 3.1), a majority of the TOD is associated with non-target demand and not the COCs. As such, treatment times are longer in order to satisfy non-target oxidant demand.

The cleanup timeframes indicate that meeting groundwater goals would take longer than soil, primarily due to the benzene criteria of 1 µg/L for groundwater assumed in the calculations. In addition, COCs on soil need to desorb into the groundwater, as ISCO treatment occurs in the aqueous phase. As COCs desorb from soil and are treated in groundwater, the changes in concentrations in each phase will disrupt the equilibrium due to partitioning effects. Partitioning will continue to occur between both phases, according to the COC-specific soil-water partitioning interactions, in an effort to maintain equilibrium. Due to these mechanisms affecting groundwater and soil concentrations, inherent error with using limited time points in the calculations, and complexities with scaling up results to actual in situ conditions, the timeframes presented above should be considered general approximations.

3.2.4 TREATMENT INTERFERENCES / BY-PRODUCTS

Gas and/or heat can sometimes be produced during ISCO applications due to reactions between organics and VOCs in the soil and oxidant. For both treatment areas, gas was generated over the test duration for all oxidant doses tested. Gas production generally increased with an increase in oxidant concentration.

Other VOCs that were not reported as site COCs were detected in one or more of the oxidant-amended test conditions, including acetone, 2-butanone (MEK), 2-hexanone (MBK), bromomethane, carbon disulfide, chloromethane, 4-methyl-2-pentanone (MIBK), methylene chloride, tetrahydrofuran, and tert-butanol. LEA typically observes the production of several of these compounds at other sites where ISCO has been applied. Many of these compounds are considered by-products of ISCO reactions between site groundwater and soil, and are not typically detected in the controls without the oxidant. Common ISCO by-products include ketones such as acetone and 2-butanone, formed from the reaction of the VOCs in the soil and groundwater with the oxidant. These compounds are generally transient by-products of the ISCO process, analogous to the formation of trihalomethanes (THMs) and other disinfection by-products that often occurs during the treatment of municipal drinking water. Although less common, LEA has observed the formation of disinfection by-products including chloromethane, methylene chloride, and THMs at other sites where ISCO has been applied. Specifically, the compound formation seems to require reduced halogen compounds (chloride, bromide, etc.), organic material, and certain oxidants. The persistence of the by-products will vary by site conditions and compound. For example, chloromethane and chloroethane are both expected to volatilize and undergo hydrolysis in groundwater. As groundwater returns to more reductive pre-ISCO conditions, it is expected that the ISCO by-products will attenuate.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following general conclusions and recommendations were derived based on the ISCO results for the conditions tested:

- ISCO using PersulfOx® tested in the treatability study is a viable remedy for both the MW-EA-4R / SB-4R and MW-EA-6 / SB-1R treatment areas of the site.
- COC treatment slightly increased with increasing oxidant concentration for both areas, with the lowest dose of 6.5% w/w resulting in significant reductions in COC mass (88% or greater) compared to the control. Sufficient oxidant remained in all treatment conditions at the end of the test, suggesting that additional treatment could be expected to reduce concentrations of COCs in site soil and groundwater further.
- A field design should take into consideration the difference between the volume of oxidant applied in the treatability (two to three pore volumes) compared to the volume that can be applied in a field application (LEA typically targets 70% of a pore volume). LEA's treatability test designs are intended to replicate field conditions as closely as possible by applying the lowest pore volume to soil ratio feasible, while still providing

enough aqueous volume for accurate analyses. Therefore, when scaling up the treatability test results for a field application, the TOD for the target oxidant concentration should be used to calculate the oxidant mass required for the mass of COCs to be treated. The target oxidant concentration should be based on the mass of oxidant required and the target volume of oxidant solution to be injected.

- A cost-benefit analysis incorporated into the design process would be recommended to determine:
 - If treatment goals could be met with a lower oxidant dose applied in two or more injection events as opposed to a higher oxidant dose in fewer injection event(s).
 - If the formation of by-products represents an issue at this site. Metals can also be mobilized during ISCO events but as with by-products, the effects are temporary until the geochemistry returns to pre-ISCO conditions. The formation of by-products and potential mobilization of metals should be evaluated for potential exceedances of any applicable regulatory standards for the site, the risk to potential receptors, and the typical environmental fate of the by-products and metals. Depending on the hydrogeology at the site (groundwater velocity, hydraulic conductivity, downgradient receptors, etc.), these constituents should be monitored for potential migration offsite.
- A field pilot test is recommended to refine the design parameters prior to a full-scale application. Scaling up the results from a treatability test can be challenging because the results obtained from batch tests are not representative of the transient subsurface environment.
- A comprehensive post-application sampling program should be established to monitor potential by-products/metals in addition to trends in COC reductions. An understanding of the hydrogeology, groundwater velocity, and potential downgradient receptors will aid in the monitoring program as well as the overall refinement of the treatment design parameters.

Tables

Table 1
PersulfOx® Total Oxidant Demand Data
 Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
 Syracuse, NY

Soil / Groundwater Type	Starting PersulfOx® Solution Dosage	Day 15			Day 30			Day 60		
		Oxidant Remaining	Total Oxidant Demand	pH	Oxidant Remaining	Total Oxidant Demand	pH	Oxidant Remaining	Total Oxidant Demand	pH
		(% w/w)	(g oxidant / g soil + gal water)		(% w/w)	(g oxidant / g soil + gal water)		(% w/w)	(g oxidant / g soil + gal water)	
MW-EA-4R / SB-4R	6.5% (0.5x dose)	3.6%	111	10.1	2.6%	149	9.5	2.0%	169	9.1
	13% (1x dose)	8.3%	177	10.1	7.1%	222	9.4	5.8%	271	9.1
	26% (2x dose)	20.2%	218	10.1	16.8%	349	9.6	13.0%	493	9.2
	39% (3x dose)	25.6%	506	10.2	21.5%	661	9.5	19.8%	725	9.1
MW-EA-6 / SB- 1R	6.5% (0.5x dose)	4.4%	78	10.4	4.2%	88	9.5	3.8%	102	9.0
	13% (1x dose)	9.8%	119	10.3	8.9%	156	9.5	8.0%	190	9.0
	26% (2x dose)	23.0%	114	10.3	19.5%	247	9.4	19.3%	254	9.1
	39% (3x dose)	34.8%	160	10.2	29.4%	363	9.5	28.5%	399	9.1

Notes:

PersulfOx® is a catalyzed sodium perulfate product manufactured by Regenesis.

% w/w = percent weight/weight solution

g = gram

gal = gallon

Table 2A
PersulfOx® Analytical Results: MW-EA-4R Groundwater
Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, NY

MW-EA-4R Groundwater								
Analyte		NYSDEC AWQS ⁽¹⁾	Test Condition ^(2,3)					
			Control ⁽⁴⁾	Killed Control ⁽⁴⁾	6.5% PersulfOx®	13% PersulfOx®	26% PersulfOx®	39% PersulfOx®
					(0.5x dose)	(1x dose)	(2x dose)	(3x dose)
				(µg/L)	(µg/L)			
Day 0	Benzene	1	6,200	--	--	--	--	--
	Methyl tert-butyl ether (MTBE)	10	70	--	--	--	--	--
	Total Detected VOCs ⁽⁵⁾	--	6,270	--	--	--	--	--
Day 15	Acetone	50	10 U	28 U	96	150	540	475
	Benzene	1	1.7	5,040	290	580	174	41
	2-Butanone (MEK)	50	2 U	5.6 U	14	32	72	50
	Carbon disulfide	60	2 U	5.6 U	4.4	34	19	10 U
	Chloromethane	NSL	2 U	5.6 U	2 U	4.0	12	17
	Methyl tert-butyl ether (MTBE)	10	48	84	38	56	28	9.0
	4-Methyl-2-pentanone (MIBK)	NSL	2 U	5.6 U	5.1	8.2	8.2	10 U
	tert-Butanol	NSL	22	28 U	19	42	102	95
	Total Detected VOCs ⁽⁵⁾	--	72	5,124	467	906	955	687
Total Detected COCs ⁽⁶⁾	--	72	5,124	347	678	304	145	
Day 30	Acetone	50	10 U	--	160	260	800	650
	Benzene	1	83	--	860	380	285	60
	Carbon disulfide	60	2 U	--	43	48	100 U	100 U
	Chloromethane	NSL	2 U	--	20 U	40 U	100 U	120
	Methyl tert-butyl ether (MTBE)	10	34	--	63	42	50 U	50 U
	tert-Butanol	NSL	10	--	100 U	200 U	500 U	500 U
	Total Detected VOCs ⁽⁵⁾	--	127	--	1,126	730	1,085	830
	Total Detected COCs ⁽⁶⁾	--	127	--	923	422	285	60
Day 60	Acetone	50	11 U	--	220	344	200 U	950 U
	Benzene	1	10	--	610	151	24	50
	Carbon disulfide	60	2 U	--	74	42	40 U	100 U
	Chloromethane	NSL	2 U	--	20 U	30	100	850
	Methyl tert-butyl ether (MTBE)	10	26	--	44	29	20 U	50 U
	Total Detected VOCs ⁽⁵⁾	--	36	--	948	596	124	900
	Total Detected COCs ⁽⁶⁾	--	36	--	654	180	24	50

Notes:

COC = contaminant of concern

U = compound not detected above the indicated reporting limit (RL)

VOCs = volatile organic compounds

NSL = No screening level available

µg/L = micrograms per liter

-- = not analyzed

Bold font indicates compound was detected at concentration above sample RL.

1. **NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1) - Detected exceedances are shaded gray.**

2. Groundwater and soil used in the batch reactors were collected from MW-EA-4R and SB-4R, respectively.

3. All test conditions were spiked with MTBE and benzene to target a groundwater concentration of 50 µg/L and 4,500 µg/L, respectively (after any anticipated volatilization and partitioning onto soil) at the start of the test.

4. The control reactors contained soil and groundwater only. The killed control was lowered to a pH of 2 to eliminate the presence of viable bacteria.

5. Compounds that were not detected above the RL were not included in the totals.

6. Total excludes acetone, carbon disulfide, chloromethane, MEK, and MIBK, which are likely byproducts from the effects of the oxidant and/or are not COCs.

Table 2B
PersulfOx® Analytical Results: SB-4R Soil
Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, NY

SB-4R Soil																												
Analyte		NY SCO Commercial ⁽¹⁾	NY SCO Protection of Groundwater ⁽²⁾	NY SCO Unrestricted Use ⁽³⁾	Test Condition ^(4,5)																							
					Control ⁽⁶⁾				Killed Control ⁽⁶⁾				6.5% PersulfOx®				13% PersulfOx®				26% PersulfOx®				39% PersulfOx®			
													(0.5x dose)				(1x dose)				(2x dose)				(3x dose)			
					DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾	
					(µg/kg)				(µg/kg)																			
Day 15	Benzene	44,000	60	60	4.6 U	4.6 U	--	--	740 E		1,700	--	250 E	290 E	580	890	190 E	300 E	780	760	140	150	--	--	67	92	--	--
	Carbon disulfide		NSL		9.2 U	9.3 U	--	--	7.2 U		74 U	--	44	68	92 U	150	48	90	220	280	64	77	--	--	35	48	--	--
	cis-1,2-dichloroethene	500,000	250	250	4.6 U	4.6 U	--	--	7.3		67	--	4.2 U	4.7 U	46 U	47 U	4.4 U	4.1 U	43 U	44 U	4.2 U	4.1 U	--	--	3.9 U	4.0 U	--	--
	Methyl tert-butyl ether (MTBE)	500,000	930	930	4.6 U	4.6 U	--	--	6.9		37 U	--	4.2 U	4.7 U	46 U	47 U	4.4 U	4.1 U	43 U	44 U	4.2 U	4.1 U	--	--	3.9 U	4.0 U	--	--
	n-Butylbenzene	500,000	12,000	12,000	9.2 U	9.3 U	--	--	7.2 U		37 U	--	8.5 U	9.5 U	60	55	8.8 U	8.2 U	48	50	8.4 U	8.1 U	--	--	7.8 U	7.9 U	--	--
	n-Propylbenzene	500,000	3,900	3,900	4.6 U	4.6 U	--	--	3.6 U		54	--	4.2 U	4.7 U	46 U	47 U	4.4 U	4.1 U	43 U	44 U	4.2 U	4.1 U	--	--	3.9 U	4.0 U	--	--
	sec-Butylbenzene	500,000	11,000	11,000	4.6 U	4.6 U	--	--	3.6 U		37 U	--	4.2 U	4.7 U	48	47 U	4.4 U	4.1 U	43 U	44 U	4.2 U	4.1 U	--	--	3.9 U	4.0 U	--	--
Total Detected VOCs ⁽⁸⁾		--		none detected		--		754		1,821		326		892		314		1,069		216		--		121		--		
Total Detected COCs ⁽⁹⁾		--		none detected		--		754		1,821		270		817		245		819		145		--		80		--		
Day 30	Acetone	500,000	50	50	42 U	45 U	--	--	--	--	--	--	38 U	--	380 U	380 U	39 U	44	550 U	420 U	30 U	42 U	--	--	91	--	--	350 U
	Benzene	44,000	60	60	20	4.5 U	--	--	--	--	--	--	320 E	--	880	850	230 E	270 E	790	930	44	100	--	--	59	--	--	210
	2-Butanone (MEK)	500,000	120	120	8.3 U	8.9 U	--	--	--	--	--	--	7.7 U	--	75 U	76 U	7.8 U	8.5 U	110 U	83 U	6.0 U	8.4 U	--	--	14	--	--	71 U
	Carbon disulfide		NSL		8.3 U	8.9 U	--	--	--	--	--	--	69	--	180	190	110	120	190	360	25	64	--	--	36	--	--	71 U
	Chloromethane		NSL		8.3 U	8.9 U	--	--	--	--	--	--	7.7 U	--	75 U	76 U	7.8 U	8.5 U	110 U	83 U	6.0 U	9.4	--	--	25	--	--	71 U
	2-Hexanone (MBK)		NSL		8.3 U	8.9 U	--	--	--	--	--	--	7.7 U	--	75 U	76 U	7.8 U	8.5 U	110 U	83 U	6.0 U	8.4 U	--	--	11 U	--	--	81
	Isopropylbenzene		NSL		4.2 U	4.5 U	--	--	--	--	--	--	3.8 U	--	38 U	38 U	3.9 U	4.3 U	55 U	42 U	3.0 U	4.2 U	--	--	5.3 U	--	--	46
	Methyl tert-butyl ether (MTBE)	500,000	930	930	4.2 U	4.5 U	--	--	--	--	--	--	3.8 U	--	38 U	38 U	3.9 U	11	55 U	42 U	3.0 U	4.3	--	--	5.3 U	--	--	35 U
	Naphthalene	500,000	12,000	12,000	4.2 U	4.5 U	--	--	--	--	--	--	3.8 U	--	38 U	38 U	3.9 U	4.3 U	55 U	42 U	3.0 U	4.2 U	--	--	5.3 U	--	--	48
	n-Butylbenzene	500,000	12,000	12,000	8.3 U	8.9 U	--	--	--	--	--	--	7.7 U	--	38 U	38 U	7.8 U	8.5 U	55 U	42 U	6.0 U	8.4 U	--	--	11 U	--	--	39
	n-Propylbenzene	500,000	3,900	3,900	4.2 U	4.5 U	--	--	--	--	--	--	3.8 U	--	38 U	41	3.9 U	4.3 U	64	54	3.0 U	4.2 U	--	--	5.3 U	--	--	150
	Tetrahydrofuran		NSL		8.3 U	8.9 U	--	--	--	--	--	--	7.7 U	--	75 U	76 U	7.8 U	8.5 U	110 U	83 U	6.0 U	8.4 U	--	--	11 U	--	--	110
	Toluene	500,000	700	700	4.2 U	4.5 U	--	--	--	--	--	--	4.9	--	38 U	38 U	3.9 U	4.3 U	55 U	42 U	3.0 U	4.2 U	--	--	5.3 U	--	--	35 U
	m,p-Xylene		NSL		4.2 U	4.5 U	--	--	--	--	--	--	3.9	--	38 U	38 U	3.9 U	4.3 U	55 U	42 U	3.0 U	4.2 U	--	--	5.3 U	--	--	35 U
	o-Xylene		NSL		4.2 U	4.5 U	--	--	--	--	--	--	5.3	--	38 U	38 U	3.9 U	4.3 U	55 U	42 U	3.0 U	4.2 U	--	--	5.3 U	--	--	35 U
Total Detected VOCs ⁽⁸⁾		--		10		--		--		--		403		1,071		393		1,194		123		--		225		684		
Total Detected COCs ⁽⁹⁾		--		10		--		--		--		334		886		256		919		74		--		59		493		
Day 60	Acetone	500,000	50	50	37 U	43 U	--	--	--	--	--	--	47 U	51 U	430 U	480 U	34 U	40 U	--	--	49	56	--	--	63	66	--	--
	Benzene	44,000	60	60	3.7 U	4.3 U	--	--	--	--	--	--	220 E	280 E	1,600	670	110	87	--	--	65	57	--	--	30	33	--	--
	2-Butanone (MEK)	500,000	120	120	7.3 U	8.6 U	--	--	--	--	--	--	9.4 U	10 U	85 U	97 U	6.8 U	8.0 U	--	--	9.1 U	11 U	--	--	10	10	--	--
	Carbon disulfide		NSL		7.3 U	8.6 U	--	--	--	--	--	--	100	120	1,200	270	97	72	--	--	52	52	--	--	15	16	--	--
	Chloromethane		NSL		7.3 U	8.6 U	--	--	--	--	--	--	9.4 U	10 U	85 U	97 U	6.8 U	8.0 U	--	--	33	33	--	--	63	67	--	--
	Methyl tert-butyl ether (MTBE)	500,000	930	930	3.7 U	4.3 U	--	--	--	--	--	--	4.7 U	5.7	43 U	48 U	5.7	4.0 U	--	--	4.5 U	5.6 U	--	--	3.2 U	3.6 U	--	--
	Naphthalene	500,000	12,000	12,000	3.7 U	4.3 U	--	--	--	--	--	--	4.7 U	5.1 U	44	61	3.4 U	4.0 U	--	--	4.5 U	5.6 U	--	--	3.2 U	3.6 U	--	--
	n-Propylbenzene	500,000	3,900	3,900	3.7 U	4.3 U	--	--	--	--	--	--	4.7 U	5.1 U	44	48 U	3.4 U	4.0 U	--	--	4.5 U	5.6 U	--	--	3.2 U	3.6 U	--	--
	Total Detected VOCs ⁽⁸⁾		--		none detected		--		--		--		363		1,945		186		--		199		--		187		--	
Total Detected COCs ⁽⁹⁾		--		none detected		--		--		--		253		1,210		101		--		61		--		32		--		

Notes:

COC = contaminant of concern

NSL = No screening level available

µg/kg = micrograms per kilogram

-- = not analyzed

E = result exceeded calibration range.

U = compound not detected above the indicated reporting limit (RL)

VOCs = volatile organic compounds

Bold font indicates compound was detected at concentration above sample RL.

1. NYSDEC Part 375, Commercial Soil, February 2023.

2. NYSDEC Part 375, Protection of Groundwater, February 2023 - detected exceedances are shaded gray.

3. NYSDEC Part 375, Unrestricted Use, February 2023 - detected exceedances are shaded gray.

4. Groundwater and soil used in the batch reactors were collected from MW-EA-4R and SB-4R, respectively.

5. All test conditions were spiked with MTBE and benzene to target a groundwater concentration of 50 µg/L and 4,500 µg/L, respectively (after any anticipated volatilization and partitioning onto soil) at the start of the test.

6. The control reactors contained soil and groundwater only. The killed control was lowered to a pH of 2 to eliminate the presence of viable bacteria.

7. All soil samples are analyzed using distilled water (DI)-preserved vials (low level method). If any compounds exceed the calibration range (i.e., "E" qualified), the laboratory analyses the sample using the methanol (MeOH)-preserved vial. For data evaluation purposes and comparison between the test conditions, the low-level, DI-preserved analytical data are used.

8. Compounds that were not detected above the RL were not included in the totals.

9. Total excludes acetone, carbon disulfide, chloromethane, MEK, MBK, and tetrahydrofuran which are likely byproducts from the effects of the oxidant, and/or are not COCs.

Table 2C
PersulfOx® Analytical Results: MW-EA-4R / SB-4R Mass Balance Evaluation
Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, NY

MW-EA-4R Groundwater / SB-4R Soil													
Test Condition ^(1,2)		Total COC Concentration ⁽⁴⁾		Total COC Mass ⁽⁵⁾			Total COC Mass Reduction (Compared to Killed Control) ⁽⁶⁾			Total COC Mass Reduction (Compared to Spiked Mass) ⁽⁷⁾			% Reduction ^(6,7)
		Water	Soil	Water	Soil	Water + Soil	Water	Soil	Water + Soil	Water	Soil	Water + Soil	
		(µg/L)	(µg/kg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	
Day 0	As spiked ⁽²⁾	7,575	0	608	0	608	--	--	--	--	--	--	
	Control ⁽³⁾	6,270	0	503	0	503	--	--	--	105	--	105	17%
Day 15	As spiked ⁽²⁾	5,835	1,681	468	227	695	--	--	--	--	--	--	
	Control ⁽³⁾	72	0	5.8	0	5.8	--	--	--	462	227	689	99%
	Killed Control ⁽³⁾	5,124	754	411	102	513	--	--	--	57	125	182	26%
	6.5% Persulfox® (0.5x dose)	347	270	28	36	64	383	65	448	440	191	631	91%
	13% Persulfox® (1x dose)	678	245	54	33	87	357	69	425	414	194	607	87%
	26% Persulfox® (2x dose)	304	145	24	20	44	387	82	469	444	207	651	94%
	39% Persulfox® (3x dose)	145	80	11.6	11	22	399	91	490	456	216	673	97%
Day 30	As spiked ⁽²⁾	5,835	1,681	468	227	695	--	--	--	--	--	--	
	Control ⁽³⁾	127	10	10	1.4	12	--	--	--	458	226	683	98%
	6.5% Persulfox® (0.5x dose)	923	334	74	45	119	337	57	394	394	182	576	83%
	13% Persulfox® (1x dose)	422	256	34	34	68	377	67	444	434	192	627	90%
	26% Persulfox® (2x dose)	285	74	23	10	33	388	92	480	445	217	662	95%
	39% Persulfox® (3x dose)	60	59	4.8	8.0	13	406	94	500	463	219	682	98%
Day 60	As spiked ⁽²⁾	5,835	1,681	468	227	695	--	--	--	--	--	--	
	Control ⁽³⁾	36	0	2.9	0	2.9	--	--	--	465	227	692	100%
	6.5% Persulfox® (0.5x dose)	654	253	52	34	87	358	68	426	416	193	608	88%
	13% Persulfox® (1x dose)	180	101	14	14	28	397	88	485	454	213	667	96%
	26% Persulfox® (2x dose)	24	61	2	8.2	10	409	94	503	466	219	685	99%
	39% Persulfox® (3x dose)	50	32	4.0	4.3	8.3	407	98	504	464	223	687	99%

Notes:

COC = contaminant of concern

µg/L = micrograms per liter

µg/kg = micrograms per kilogram

1. Groundwater and soil used in the batch reactors were collected from MW-EA-4R and SB-4R, respectively.

2. All test conditions were spiked with MTBE and benzene to target a groundwater concentration of 50 µg/L and 4,500 µg/L, respectively (after any anticipated volatilization and partitioning onto soil) at the start of the test.

3. The control reactors contained soil and groundwater only. The killed control was lowered to a pH of 2 to eliminate the presence of viable bacteria.

4. Compounds not detected above the sample reporting limit or likely byproducts of the oxidant were not included in the total concentration / mass.

5. Contaminant mass calculated using the contaminant concentration for each test condition and the soil mass and groundwater volume in the test reactor.

6. Contaminant mass reduction calculated by comparing the contaminant mass in the test reactor with the contaminant mass in the killed control reactor.

7. Contaminant mass reduction calculated by comparing the contaminant mass in the test reactor with the starting contaminant mass spiked in the reactor.

Table 3A
PersulfOx® Analytical Results: MW-EA-6 Groundwater
Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, NY

MW-EA-6 Groundwater								
Analyte		NYSDEC AWQS ⁽¹⁾	Test Condition ^(2,3)					
			Control ⁽⁴⁾	Killed Control ⁽⁴⁾	6.5% PersulfOx®	13% PersulfOx®	26% PersulfOx®	39% PersulfOx®
					(0.5x dose)	(1x dose)	(2x dose)	(3x dose)
					(µg/L)			
Day 0	Benzene	1	5,900	--	--	--	--	--
	Ethylbenzene	5	2,700	--	--	--	--	--
	Methyl tert-butyl ether (MTBE)	10	59	--	--	--	--	--
	Toluene	5	6,300	--	--	--	--	--
	m,p-Xylene	NSL	7,900	--	--	--	--	--
	o-Xylene	5	5,900	--	--	--	--	--
	Total Detected VOCs ⁽⁵⁾	--	28,759	--	--	--	--	--
Day 15	Acetone	50	10 U	--	120	188	480	420
	Benzene	1	1 U	--	10 U	7.8	20 U	24
	2-Butanone (MEK)	50	2 U	--	20 U	42	40 U	55
	Carbon disulfide	60	2 U	--	49	92	40 U	10 U
	Chloromethane	NSL	2 U	--	20 U	10	40 U	37
	Methyl tert-butyl ether (MTBE)	10	5.5	--	41	44	20	6.0
	Tetrachloroethene	5	1.4	--	10 U	5.4	20 U	5 U
	1,2,4-Trimethylbenzene	NSL	1 U	--	10 U	2.2	20 U	5 U
	m,p-Xylene	NSL	1 U	--	10 U	2.8	20 U	5 U
	o-Xylene	5	1 U	--	10 U	2.2	20 U	5 U
	tert-Butanol	NSL	10 U	--	100 U	20 U	200 U	75
	Total Detected VOCs ⁽⁵⁾	--	6.9	--	210	397	500	617
Total Detected COCs ⁽⁶⁾	--	6.9	--	41	64	20	105	
Day 30 / Day 15 Spiked ⁽³⁾	Acetone	50	10 U	27 U	180	280	1,950	650
	Benzene	1	1,900	6,210	1,200	600	1,250	280
	2-Butanone (MEK)	50	2 U	5.4 U	20 U	52	185	10 U
	Bromomethane	5	2 U	5.4 U	20 U	40 U	100 U	36
	Carbon disulfide	60	2 U	5.4 U	85	68	100 U	10 U
	Chloromethane	NSL	2 U	5.4 U	20 U	13	255	285
	Ethylbenzene	5	12	1,053	160	110	50 U	18
	Isopropylbenzene	5	1 U	2.7	10 U	2 U	50 U	5 U
	Methyl tert-butyl ether (MTBE)	10	7.3	86	36	40	50 U	5 U
	Tetrachloroethene	5	12	20	10 U	6.0	50 U	5 U
	1,2,4-Trimethylbenzene	NSL	1.1	4.1	10 U	2.0	50 U	5 U
	Toluene	5	810	4,860	800	260	350	70
	Trichloroethene	5	1.2	3.8	10 U	2 U	50 U	5 U
	m,p-Xylene	NSL	200	2,970	450	98	75	14
	o-Xylene	5	490	2,052	360	104	110	19
	tert-Butanol	NSL	10 U	27 U	100 U	22	500 U	50 U
	Total Detected VOCs ⁽⁵⁾	--	3,434	17,262	3,271	1,655	4,175	1,371
	Total Detected COCs ⁽⁶⁾	--	3,434	17,262	3,006	1,242	1,785	400
Day 60 / Day 45 Spiked ⁽³⁾	Acetone	50	12	--	330	500	1,260	1,400
	Benzene	1	118	--	290	108	90	50
	Bromomethane	5	2.2 U	--	40 U	6.0	45	50
	2-Butanone (MEK)	50	2.2 U	--	40 U	120	297	240
	Carbon disulfide	60	2.2 U	--	78	38	11	10 U
	Chloromethane	NSL	2.2 U	--	40 U	56	360	1,100
	Ethylbenzene	5	1.3	--	49	26	20	9.0
	2-Hexanone (MBK)	50	2.2 U	--	40 U	4.8	11	16
	Methyl tert-butyl ether (MTBE)	10	9.1	--	38	34	14	5 U
	Tetrachloroethene	5	1.8	--	20 U	3.6	4.8	5 U
	Toluene	5	1.9	--	200	90	54	32
	Trichloroethene	5	1.8	--	25	4.8	6.6	8.0
	m,p-Xylene	NSL	9.2	--	120	56	27	8.5
	o-Xylene	5	16	--	100	54	28	10
	tert-Butanol	NSL	11 U	--	200 U	52	111	65
	Total Detected VOCs ⁽⁵⁾	--	171	--	1,230	1,153	2,340	2,988
	Total Detected COCs ⁽⁶⁾	--	160	--	822	428	356	183

Notes:
COC = contaminant of concern
NSL = No screening level available
Bold font indicates compound was detected at concentration above sample RL.
1. **NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1) - Detected exceedances are shaded gray.**
2. Groundwater and soil used in the batch reactors were collected from MW-EA-6 and SB-1R, respectively.
3. All test conditions were spiked with MTBE to target a groundwater concentration of 50 µg/L (after any anticipated volatilization and partitioning onto soil) at the start of the test. On Day 15, the remaining batch reactors (i.e., Day 30 and Day 60 reactors) were spiked to target groundwater concentrations of 4,500 µg/L benzene, 4,500 µg/L toluene, 1,400 µg/L ethylbenzene, and 7,200 µg/L total xylenes (2,900 µg/L o-xylene and 4,300 µg/L p-xylene) after any volalization and partitioning onto soil.
4. The control reactors contained soil and groundwater only. The killed control was lowered to a pH of 2 to eliminate the presence of viable bacteria.
5. Compounds that were not detected above the RL were not included in the totals.
6. Total excludes acetone, bromomethane, carbon disulfide, chloromethane, MEK, and MBK, which are likely byproducts from the effects of the oxidant and/or are not COCs.

SB-1R Soil																												
Analyte		NY SCO Commercial ⁽¹⁾	NY SCO Protection of Groundwater ⁽²⁾	NY SCO Unrestricted Use ⁽³⁾	Test Condition ^(4,5)																							
					Control ⁽⁶⁾				Killed Control ⁽⁶⁾				6.5% PersulfOx®				13% PersulfOx®				26% PersulfOx®				39% PersulfOx®			
													(0.5x dose)				(1x dose)				(2x dose)				(3x dose)			
					DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾		DI-extracted Duplicate Pair ⁽⁷⁾		MeOH-extracted Duplicate Pair ⁽⁷⁾	
(µg/kg)					(µg/kg)																							
Day 15	Acetone	500,000	50	50	41 U	40 U	--	--	--	--	--	--	52 U	46 U	--	--	35 U	41 U	--	--	41 U	33 U	--	--	46	41 U	--	--
	Benzene	44,000	60	60	4.1 U	4.0 U	--	--	--	--	--	--	5.2 U	4.9	--	--	3.5 U	4.1 U	--	--	4.1 U	3.3 U	--	--	4.6	4.2	--	--
	2-Butanone (MEK)	NSL			8.2 U	8.0 U	--	--	--	--	--	--	10 U	9.2 U	--	--	7.0 U	8.2 U	--	--	8.2 U	6.6 U	--	--	8.5 U	8.8	--	--
	Carbon disulfide	NSL			8.2 U	8.0 U	--	--	--	--	--	--	31	42	--	--	34	26	--	--	22	20	--	--	23	22	--	--
	Methyl tert-butyl ether (MTBE)	500,000	930	930	4.1 U	4.0 U	--	--	--	--	--	--	5.2 U	4.6 U	--	--	3.5 U	4.1 U	--	--	4.1 U	3.3 U	--	--	4.3 U	4.1 U	--	--
	Tetrachloroethene	150,000	1,300	1,300	8.5	5.5	--	--	--	--	--	--	6.9	8.0	--	--	7.2	5.2	--	--	5.6	4.6	--	--	12	9.9	--	--
	m,p-Xylene	NSL			4.1 U	4.0 U	--	--	--	--	--	--	5.2 U	4.6	--	--	4.1	4.1 U	--	--	4.1 U	3.3 U	--	--	4.3 U	4.1 U	--	--
	Total Detected VOCs ⁽⁸⁾	--			7.0		--		--		--		49		--		38		--		26		--		65		--	
Total Detected COCs ⁽⁹⁾	--			7.0		--		--		--		12		--		8.3		--		5.1		--		15		--		
Day 30 / Day 15 Spiked ⁽⁵⁾	Acetone	500,000	50	50	37 U	37 U	400 U	620 U	650 U	--	330 U	--	28 U	32 U	360 U	440 U	38 U	36 U	560 U	420 U	36	32	370 U	390 U	71	110	400 U	--
	Benzene	44,000	60	60	340 E	340 E	1,200	2,000	1,200	--	1,400	--	230 E	280 E	810	1,100	250 E	210 E	700	440	200 E	170 E	1,100	600	200 E	150	460	--
	2-Butanone (MEK)	500,000	120	120	7.4 U	7.4 U	79 U	120 U	130 U	--	65 U	--	5.6 U	6.5 U	72 U	88 U	7.5 U	7.2 U	110 U	83 U	6.4 U	6.4 U	74 U	77 U	11	20	80 U	--
	Carbon disulfide	NSL			7.4 U	7.4 U	79 U	120 U	130 U	--	65 U	--	32	44	72	100	46	43	110 U	83 U	21	18	74 U	77 U	9.5 U	8.3 U	80 U	--
	Chloromethane	NSL			7.4 U	7.4 U	79 U	120 U	130 U	--	65 U	--	5.6 U	6.5 U	72 U	88 U	7.5 U	7.2 U	110 U	83 U	6.4 U	6.4 U	74 U	77 U	21	16	80 U	--
	Ethylbenzene	390,000	1,000	1,000	3.7 U	3.7 U	210	340	840	--	1,000	--	84	120	850	990	100	110	1,000	550	92	75	1,100	580	91	72	480	--
	Isopropylbenzene	NSL			3.7 U	3.7 U	40 U	62 U	65 U	--	34	--	2.8 U	3.2 U	36 U	44 U	3.8 U	3.6 U	56 U	42 U	3.2 U	3.2 U	37 U	39 U	4.7 U	4.1 U	40 U	--
	Methyl tert-butyl ether (MTBE)	500,000	930	930	3.7 U	3.7 U	40 U	62 U	65 U	--	33 U	--	2.8 U	3.2 U	36 U	44 U	3.8 U	3.6 U	56 U	42 U	3.2 U	3.2 U	37 U	39 U	4.7 U	4.1 U	40 U	--
	Naphthalene	500,000	12,000	12,000	3.7 U	3.7 U	40 U	62 U	210	--	33 U	--	2.8 U	3.2 U	120	68	3.8 U	3.6 U	56 U	42 U	3.2 U	3.2 U	37 U	39 U	4.7 U	4.1 U	40 U	--
	n-Butylbenzene	500,000	12,000	12,000	7.4 U	7.4 U	40 U	62 U	65 U	--	41	--	5.6 U	6.5 U	36 U	44 U	7.5 U	7.2 U	56 U	42 U	6.4 U	6.4 U	40	39 U	9.5 U	8.3 U	40 U	--
	n-Propylbenzene	500,000	3,900	3,900	3.7 U	3.7 U	40 U	62 U	65 U	--	48	--	2.8 U	3.2 U	36 U	44 U	3.8 U	3.6 U	56 U	42 U	3.2 U	3.2 U	47	39 U	4.7 U	4.1 U	40 U	--
	Styrene	NSL			3.7 U	3.7 U	40 U	62 U	65 U	--	33 U	--	2.8 U	3.2 U	78	44 U	3.8 U	3.6 U	56 U	42 U	3.2 U	3.2 U	87	39 U	4.7 U	4.1 U	40 U	--
	Tetrachloroethene	150,000	1,300	1,300	10	9.1	56	82	100	--	150	--	5.9	9.3	48	60	9.4	11	75	42 U	10	8.4	87	53	11	8.7	48	--
	Toluene	500,000	700	700	270 E	270 E	1,800	2,900	1,600	--	2,000	--	240 E	320 E	1,400	1,700	260 E	240 E	1,400	710	210 E	180 E	1,700	940	210 E	160	720	--
	1,2,4-Trimethylbenzene	190,000	3,600	3,600	3.7 U	3.7 U	57	100	150	--	170	--	2.8 U	3.7	60	79	3.8 U	3.6 U	110	75	3.2 U	3.2 U	130	51	4.7 U	4.1 U	64	--
	1,3,5-Trimethylbenzene	190,000	8,400	8,400	3.7 U	3.7 U	41	69	65 U	--	65	--	2.8 U	3.2 U	39	50	3.8 U	3.6 U	70	46	3.2 U	3.2 U	63	39 U	4.7 U	4.1 U	40 U	--
	m,p-Xylene	NSL			190 E	190 E	2,900	4,300	2,700	--	2,700	--	210 E	300 E	2,800	3,200	230 E	250 E	3,100	1,600	190 E	150 E	3,000	1,600	170	140	1,200	--
	o-Xylene	NSL			250 E	220 E	1,900	3,100	1,700	--	2,000	--	160 E	220 E	1,600	1,900	180 E	180 E	1,800	1,000	150 E	120	1,800	1,100	140	110	870	--
	Total Detected VOCs ⁽⁸⁾	--			1,045		10,528		8,500		9,608		1,129		8,562		1,060		6,338		831		7,039		856		3,842	
	Total Detected COCs ⁽⁹⁾	--			1,045		10,528		8,500		9,608		1,091		8,476		1,015		6,338		778		7,039		731		3,842	
Day 60 / Day 45 Spiked ⁽⁵⁾	Acetone	500,000	50	50	40 U	37 U	--	--	--	--	--	--	49	36 U	720 U	650 U	35	35 U	--	--	55	65	--	--	130	100	--	--
	Benzene	44,000	60	60	4.0 U	3.7 U	--	--	--	--	--	--	110	130	350	270	41	47	--	--	42	29	--	--	21	18	--	--
	2-Butanone (MEK)	500,000	120	120	7.9 U	7.4 U	--	--	--	--	--	--	7.1 U	7.1 U	140 U	130 U	5.7 U	7.0 U	--	--	11	11	--	--	16	14	--	--
	Carbon disulfide	NSL			7.9 U	7.4 U	--	--	--	--	--	--	55	76	140 U	130 U	24	27	--	--	6.7 U	7.9 U	--	--	7.1 U	5.9 U	--	--
	Chloromethane	NSL			7.9 U	7.4 U	--	--	--	--	--	--	7.1 U	7.1 U	140 U	130 U	5.7 U	7.0 U	--	--	24	31	--	--	83	55	--	--
	Ethylbenzene	390,000	1,000	1,000	4.0 U	3.7 U	--	--	--	--	--	--	63	67	590	520	37	36	--	--	28	18	--	--	15	14	--	--
	Methyl tert-butyl ether (MTBE)	500,000	930	930	4.0 U	3.7 U	--	--	--	--	--	--	3.6 U	4.0	72 U	65 U	2.9 U	3.5 U	--	--	3.4 U	3.9 U	--	--	3.5 U	2.9 U	--	--
	Naphthalene	500,000	12,000	12,000	4.0 U	3.7 U	--	--	--	--	--	--	3.6 U	3.6 U	120	68	2.9 U	3.5 U	--	--	3.4 U	3.9 U	--	--	3.5 U	2.9 U	--	--
	Tetrachloroethene	150,000	1,300	1,300	4.0 U	3.7 U	--	--	--	--	--	--	8.5	8.9	72 U	65 U	6.9	6.9	--	--	6.3	4.3	--	--	4.2	4.0	--	--
	Toluene	500,000	700	700	4.0 U	3.7 U	--	--	--	--	--	--	130	130	740	580	56	57	--	--	49	29	--	--	21	19	--	--
	1,2,4-Trimethylbenzene	190,000	3,600	3,600	4.0 U	3.7 U	--	--	--	--	--	--	3.6 U	3.6 U	72 U	120	2.9 U	3.5 U	--	--	3.4 U	3.9 U	--	--	3.5 U	2.9 U	--	--
	m,p-Xylene	NSL			4.0 U	3.7 U	--	--	--	--	--	--	160 E	170 E	1,600	1,600	75	72	--	--	42	25	--	--	19	18	--	--
	o-Xylene	NSL			4.0 U	3.7 U	--	--	--	--	--	--	100	110	1,000	920	54	52	--	--	35	21	--	--	18	16	--	--
	Total Detected VOCs ⁽⁸⁾	--			none detected		--		--		--		686		4,239		313		--		263		--		293		--	
Total Detected COCs ⁽⁹⁾	--			none detected		--		--		--		596		4,239		270		--		164		--		94		--		

Table 3C
PersulfOx® Analytical Results: MW-EA-6 / SB-1R Mass Balance Evaluation
Zip Zip Mini Market Property (NYSDEC Site Number #B00075)
Syracuse, NY

MW-EA-6 Groundwater / SB-1R Soil													
Test Condition ^(1,2)		Total COC Concentration ⁽⁴⁾		Total COC Mass ⁽⁵⁾			Total COC Mass Reduction (Compared to Control/Killed Control) ⁽⁶⁾			Total COC Mass Reduction (Compared to Spiked Mass) ⁽⁷⁾			% Reduction ^(6,7)
		Water	Soil	Water	Soil	Water + Soil	Water	Soil	Water + Soil	Water	Soil	Water + Soil	
		(µg/L)	(µg/kg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	(µg)	
Day 0	As spiked ⁽²⁾	33,430	0	2,584	0	2,584	--	--	--	--	--	--	
	Control ⁽³⁾	28,759	0	2,223	0	2,223	--	--	--	361	--	361	14%
Day 15	As spiked ⁽²⁾	75	1.7	5.8	0.2	6.0	--	--	--	--	--	--	
	Control ⁽³⁾	6.9	7.0	0.5	0.9	1.4	--	--	--	5.3	-0.7	4.6	76%
	6.5% Persulfox® (0.5x dose)	41	12	3.2	1.6	4.8	-2.6	-0.7	-3.3	2.6	-1.4	1.3	21%
	13% Persulfox® (1x dose)	64	8.3	5.0	1.1	6.1	-4.4	-0.2	-4.6	0.8	-0.8	0.0	0%
	26% Persulfox® (2x dose)	20	5.1	1.5	0.7	2.2	-1.0	0.2	-0.8	4.3	-0.4	3.8	63%
	39% Persulfox® (3x dose)	105	15	8.1	2.0	10.1	-7.5	-1.1	-8.6	-2.3	-1.8	-4.1	-67%
Day 30 / Day 15 Spiked ⁽²⁾	As spiked ⁽²⁾	21,195	12,139	1,638	1,578	3,217	--	--	--	--	--	--	
	Control ⁽³⁾	3,434	1,045	265	136	401	--	--	--	1,373	1,442	2,815	88%
	Killed Control ⁽³⁾	17,262	8,500	1,334	1,105	2,439	--	--	--	304	473	777	24%
	6.5% Persulfox® (0.5x dose)	3,006	1,091	232	142	374	1,102	963	2,065	1,406	1,436	2,842	88%
	13% Persulfox® (1x dose)	1,242	1,015	96	132	228	1,238	973	2,211	1,542	1,446	2,989	93%
	26% Persulfox® (2x dose)	1,785	778	138	101	239	1,196	1,004	2,200	1,500	1,477	2,977	93%
	39% Persulfox® (3x dose)	400	731	31	95	126	1,303	1,010	2,313	1,607	1,483	3,091	96%
Day 60 / Day 45 Spiked ⁽²⁾	As spiked ⁽²⁾	21,195	12,139	1,638	1,578	3,217	--	--	--	--	--	--	
	Control ⁽³⁾	160	0	12	0	12	--	--	--	1,626	1,578	3,204	100%
	6.5% Persulfox® (0.5x dose)	822	596	64	77	141	1,271	1,028	2,298	1,575	1,501	3,076	96%
	13% Persulfox® (1x dose)	428	270	33	35	68	1,301	1,070	2,371	1,605	1,543	3,148	98%
	26% Persulfox® (2x dose)	356	164	28	21	49	1,307	1,084	2,390	1,611	1,557	3,168	98%
	39% Persulfox® (3x dose)	183	94	14.1	12	26	1,320	1,093	2,413	1,624	1,566	3,190	99%

Notes:
COC = contaminant of concern
µg/L = micrograms per liter
µg/kg = micrograms per kilogram
1. Groundwater and soil used in the batch reactors were collected from MW-EA-6 and SB-1R, respectively.
2. All test conditions were spiked with MTBE to target a groundwater concentration of 50 µg/L (after any anticipated volatilization and partitioning onto soil) at the start of the test. On Day 15, the remaining batch reactors (i.e., Day 30 and Day 60 reactors) were spiked to target groundwater concentrations of 4,500 µg/L benzene, 4,500 µg/L toluene, 1,400 µg/L ethylbenzene, and 7,200 µg/L total xylenes (2,900 µg/L o-xylene and 4,300 µg/L p-xylene) after any volalization and partitioning onto soil.
3. The control reactors contained soil and groundwater only. The killed control was lowered to a pH of 2 to eliminate the presence of viable bacteria.
4. Compounds not detected above the sample reporting limit or likely byproducts of the oxidant were not included in the total concentration / mass.
5. Contaminant mass calculated using the contaminant concentration for each test condition and the soil mass and groundwater volume in the test reactor.
6. Contaminant mass reduction calculated by comparing the contaminant mass in the test reactor with the contaminant mass in the control reactor for Day 15 and the killed control reactor for Day 30 and Day 60.
7. Contaminant mass reduction calculated by comparing the contaminant mass in the test reactor with the starting contaminant mass spiked in the reactor.

Appendix A

Laboratory Analytical Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

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JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-18388-1

Eurofins Rhode Island

Job Notes

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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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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Job ID: 620-18388-1

Eurofins Rhode Island

Job Narrative 620-18388-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/2/2024 5:49 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 5.4°C.

GC/MS VOA

Method 8260C: The following sample was diluted due to the nature of the sample matrix (strong odor): 6 Day 0 Ctrl (620-18388-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-34530 exhibited % difference of > 20% for the following analytes: Acetone, 1,2-Dibromo-3-Chloropropane and Tetrahydrofuran; 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, the continuing 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.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 4R Day 0 Ctrl

Lab Sample ID: 620-18388-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	70		1.0	ug/L	1		8260C	Total/NA
Benzene - DL	6200		100	ug/L	100		8260C	Total/NA

Client Sample ID: 6 Day 0 Ctrl

Lab Sample ID: 620-18388-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2700		50	ug/L	50		8260C	Total/NA
Methyl tert-butyl ether	59		50	ug/L	50		8260C	Total/NA
Benzene - DL	5900		100	ug/L	100		8260C	Total/NA
Toluene - DL	6300		100	ug/L	100		8260C	Total/NA
m,p-Xylene - DL	7900		100	ug/L	100		8260C	Total/NA
o-Xylene - DL	5900		100	ug/L	100		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 4R Day 0 Ctrl

Lab Sample ID: 620-18388-1

Date Collected: 05/02/24 09:00

Matrix: Water

Date Received: 05/02/24 17:49

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			05/09/24 13:15	1
Acetone	ND		10	ug/L			05/09/24 13:15	1
Acrylonitrile	ND		1.0	ug/L			05/09/24 13:15	1
Bromobenzene	ND		1.0	ug/L			05/09/24 13:15	1
Bromochloromethane	ND		1.0	ug/L			05/09/24 13:15	1
Bromodichloromethane	ND		0.50	ug/L			05/09/24 13:15	1
Bromoform	ND		1.0	ug/L			05/09/24 13:15	1
Bromomethane	ND		2.0	ug/L			05/09/24 13:15	1
2-Butanone (MEK)	ND		2.0	ug/L			05/09/24 13:15	1
n-Butylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
sec-Butylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
tert-Butylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
Carbon disulfide	ND		2.0	ug/L			05/09/24 13:15	1
Carbon tetrachloride	ND		1.0	ug/L			05/09/24 13:15	1
Chlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
Chloroethane	ND		2.0	ug/L			05/09/24 13:15	1
Chloroform	ND		1.0	ug/L			05/09/24 13:15	1
Chloromethane	ND		2.0	ug/L			05/09/24 13:15	1
2-Chlorotoluene	ND		1.0	ug/L			05/09/24 13:15	1
4-Chlorotoluene	ND		1.0	ug/L			05/09/24 13:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/09/24 13:15	1
Dibromochloromethane	ND		0.50	ug/L			05/09/24 13:15	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/09/24 13:15	1
Dibromomethane	ND		1.0	ug/L			05/09/24 13:15	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/09/24 13:15	1
1,1-Dichloroethane	ND		1.0	ug/L			05/09/24 13:15	1
1,2-Dichloroethane	ND		1.0	ug/L			05/09/24 13:15	1
1,1-Dichloroethene	ND		1.0	ug/L			05/09/24 13:15	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/09/24 13:15	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/09/24 13:15	1
1,2-Dichloropropane	ND		1.0	ug/L			05/09/24 13:15	1
1,3-Dichloropropane	ND		1.0	ug/L			05/09/24 13:15	1
2,2-Dichloropropane	ND		1.0	ug/L			05/09/24 13:15	1
1,1-Dichloropropene	ND		1.0	ug/L			05/09/24 13:15	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/09/24 13:15	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/09/24 13:15	1
Ethylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
Hexachlorobutadiene	ND		1.0	ug/L			05/09/24 13:15	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/09/24 13:15	1
Isopropylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
4-Isopropyltoluene	ND		1.0	ug/L			05/09/24 13:15	1
Methyl tert-butyl ether	70		1.0	ug/L			05/09/24 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/09/24 13:15	1
Methylene Chloride	ND		2.0	ug/L			05/09/24 13:15	1
Naphthalene	ND		2.0	ug/L			05/09/24 13:15	1
N-Propylbenzene	ND		1.0	ug/L			05/09/24 13:15	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 4R Day 0 Ctrl

Lab Sample ID: 620-18388-1

Date Collected: 05/02/24 09:00

Matrix: Water

Date Received: 05/02/24 17:49

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	ug/L			05/09/24 13:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/09/24 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/09/24 13:15	1
Tetrachloroethene	ND		1.0	ug/L			05/09/24 13:15	1
Toluene	ND		1.0	ug/L			05/09/24 13:15	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/09/24 13:15	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/09/24 13:15	1
Trichloroethene	ND		1.0	ug/L			05/09/24 13:15	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/09/24 13:15	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/09/24 13:15	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/09/24 13:15	1
Vinyl chloride	ND		1.0	ug/L			05/09/24 13:15	1
m,p-Xylene	ND		1.0	ug/L			05/09/24 13:15	1
o-Xylene	ND		1.0	ug/L			05/09/24 13:15	1
Tetrahydrofuran	ND		2.0	ug/L			05/09/24 13:15	1
Ethyl ether	ND		1.0	ug/L			05/09/24 13:15	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/09/24 13:15	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/09/24 13:15	1
di-Isopropyl ether	ND		1.0	ug/L			05/09/24 13:15	1
tert-Butanol	ND		10	ug/L			05/09/24 13:15	1
1,4-Dioxane	ND		50	ug/L			05/09/24 13:15	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/09/24 13:15	1
Ethanol	ND		200	ug/L			05/09/24 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		05/09/24 13:15	1
Toluene-d8 (Surr)	95		70 - 130		05/09/24 13:15	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		05/09/24 13:15	1
Dibromofluoromethane (Surr)	90		70 - 130		05/09/24 13:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6200		100	ug/L			05/09/24 14:55	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		05/09/24 14:55	100
Toluene-d8 (Surr)	99		70 - 130		05/09/24 14:55	100
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		05/09/24 14:55	100
Dibromofluoromethane (Surr)	96		70 - 130		05/09/24 14:55	100

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 6 Day 0 Ctrl

Lab Sample ID: 620-18388-2

Date Collected: 05/02/24 09:10

Matrix: Water

Date Received: 05/02/24 17:49

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/L			05/09/24 13:39	50
Acetone	ND		500	ug/L			05/09/24 13:39	50
Acrylonitrile	ND		50	ug/L			05/09/24 13:39	50
Bromobenzene	ND		50	ug/L			05/09/24 13:39	50
Bromochloromethane	ND		50	ug/L			05/09/24 13:39	50
Bromodichloromethane	ND		25	ug/L			05/09/24 13:39	50
Bromoform	ND		50	ug/L			05/09/24 13:39	50
Bromomethane	ND		100	ug/L			05/09/24 13:39	50
2-Butanone (MEK)	ND		100	ug/L			05/09/24 13:39	50
n-Butylbenzene	ND		50	ug/L			05/09/24 13:39	50
sec-Butylbenzene	ND		50	ug/L			05/09/24 13:39	50
tert-Butylbenzene	ND		50	ug/L			05/09/24 13:39	50
Carbon disulfide	ND		100	ug/L			05/09/24 13:39	50
Carbon tetrachloride	ND		50	ug/L			05/09/24 13:39	50
Chlorobenzene	ND		50	ug/L			05/09/24 13:39	50
Chloroethane	ND		100	ug/L			05/09/24 13:39	50
Chloroform	ND		50	ug/L			05/09/24 13:39	50
Chloromethane	ND		100	ug/L			05/09/24 13:39	50
2-Chlorotoluene	ND		50	ug/L			05/09/24 13:39	50
4-Chlorotoluene	ND		50	ug/L			05/09/24 13:39	50
1,2-Dibromo-3-Chloropropane	ND		100	ug/L			05/09/24 13:39	50
Dibromochloromethane	ND		25	ug/L			05/09/24 13:39	50
1,2-Dibromoethane (EDB)	ND		25	ug/L			05/09/24 13:39	50
Dibromomethane	ND		50	ug/L			05/09/24 13:39	50
1,2-Dichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
1,3-Dichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
1,4-Dichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
Dichlorodifluoromethane (Freon 12)	ND		100	ug/L			05/09/24 13:39	50
1,1-Dichloroethane	ND		50	ug/L			05/09/24 13:39	50
1,2-Dichloroethane	ND		50	ug/L			05/09/24 13:39	50
1,1-Dichloroethene	ND		50	ug/L			05/09/24 13:39	50
cis-1,2-Dichloroethene	ND		50	ug/L			05/09/24 13:39	50
trans-1,2-Dichloroethene	ND		50	ug/L			05/09/24 13:39	50
1,2-Dichloropropane	ND		50	ug/L			05/09/24 13:39	50
1,3-Dichloropropane	ND		50	ug/L			05/09/24 13:39	50
2,2-Dichloropropane	ND		50	ug/L			05/09/24 13:39	50
1,1-Dichloropropene	ND		50	ug/L			05/09/24 13:39	50
cis-1,3-Dichloropropene	ND		25	ug/L			05/09/24 13:39	50
trans-1,3-Dichloropropene	ND		25	ug/L			05/09/24 13:39	50
Ethylbenzene	2700		50	ug/L			05/09/24 13:39	50
Hexachlorobutadiene	ND		50	ug/L			05/09/24 13:39	50
2-Hexanone (MBK)	ND		100	ug/L			05/09/24 13:39	50
Isopropylbenzene	ND		50	ug/L			05/09/24 13:39	50
4-Isopropyltoluene	ND		50	ug/L			05/09/24 13:39	50
Methyl tert-butyl ether	59		50	ug/L			05/09/24 13:39	50
4-Methyl-2-pentanone (MIBK)	ND		100	ug/L			05/09/24 13:39	50
Methylene Chloride	ND		100	ug/L			05/09/24 13:39	50
Naphthalene	ND		100	ug/L			05/09/24 13:39	50
N-Propylbenzene	ND		50	ug/L			05/09/24 13:39	50

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 6 Day 0 Ctrl

Lab Sample ID: 620-18388-2

Date Collected: 05/02/24 09:10

Matrix: Water

Date Received: 05/02/24 17:49

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		50	ug/L			05/09/24 13:39	50
1,1,1,2-Tetrachloroethane	ND		50	ug/L			05/09/24 13:39	50
1,1,2,2-Tetrachloroethane	ND		25	ug/L			05/09/24 13:39	50
Tetrachloroethene	ND		50	ug/L			05/09/24 13:39	50
1,2,3-Trichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
1,2,4-Trichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
1,3,5-Trichlorobenzene	ND		50	ug/L			05/09/24 13:39	50
1,1,1-Trichloroethane	ND		50	ug/L			05/09/24 13:39	50
1,1,2-Trichloroethane	ND		50	ug/L			05/09/24 13:39	50
Trichloroethene	ND		50	ug/L			05/09/24 13:39	50
Trichlorofluoromethane (Freon 11)	ND		50	ug/L			05/09/24 13:39	50
1,2,3-Trichloropropane	ND		50	ug/L			05/09/24 13:39	50
1,2,4-Trimethylbenzene	ND		50	ug/L			05/09/24 13:39	50
1,3,5-Trimethylbenzene	ND		50	ug/L			05/09/24 13:39	50
Vinyl chloride	ND		50	ug/L			05/09/24 13:39	50
Tetrahydrofuran	ND		100	ug/L			05/09/24 13:39	50
Ethyl ether	ND		50	ug/L			05/09/24 13:39	50
Tert-amyl methyl ether	ND		50	ug/L			05/09/24 13:39	50
Ethyl tert-butyl ether	ND		50	ug/L			05/09/24 13:39	50
di-Isopropyl ether	ND		50	ug/L			05/09/24 13:39	50
tert-Butanol	ND		500	ug/L			05/09/24 13:39	50
1,4-Dioxane	ND		2500	ug/L			05/09/24 13:39	50
trans-1,4-Dichloro-2-butene	ND		250	ug/L			05/09/24 13:39	50
Ethanol	ND		10000	ug/L			05/09/24 13:39	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		05/09/24 13:39	50
Toluene-d8 (Surr)	97		70 - 130		05/09/24 13:39	50
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		05/09/24 13:39	50
Dibromofluoromethane (Surr)	93		70 - 130		05/09/24 13:39	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5900		100	ug/L			05/09/24 15:19	100
Toluene	6300		100	ug/L			05/09/24 15:19	100
m,p-Xylene	7900		100	ug/L			05/09/24 15:19	100
o-Xylene	5900		100	ug/L			05/09/24 15:19	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		05/09/24 15:19	100
Toluene-d8 (Surr)	98		70 - 130		05/09/24 15:19	100
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		05/09/24 15:19	100
Dibromofluoromethane (Surr)	97		70 - 130		05/09/24 15:19	100

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Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	TOL	DCA	DBFM
		(70-130)	(70-130)	(70-130)	(70-130)
620-18388-1	4R Day 0 Ctrl	93	95	92	90
620-18388-1 - DL	4R Day 0 Ctrl	94	99	96	96
620-18388-2	6 Day 0 Ctrl	99	97	93	93
620-18388-2 - DL	6 Day 0 Ctrl	100	98	99	97
LCS 620-34530/4	Lab Control Sample	99	100	92	96
LCSD 620-34530/5	Lab Control Sample Dup	100	100	94	97
MB 620-34530/7	Method Blank	95	98	92	95

Surrogate Legend

- BFB = 4-Bromofluorobenzene (Surr)
- TOL = Toluene-d8 (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: MB 620-34530/7

Matrix: Water

Analysis Batch: 34530

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			05/09/24 10:23	1
Acetone	ND		10	ug/L			05/09/24 10:23	1
Acrylonitrile	ND		1.0	ug/L			05/09/24 10:23	1
Benzene	ND		1.0	ug/L			05/09/24 10:23	1
Bromobenzene	ND		1.0	ug/L			05/09/24 10:23	1
Bromochloromethane	ND		1.0	ug/L			05/09/24 10:23	1
Bromodichloromethane	ND		0.50	ug/L			05/09/24 10:23	1
Bromoform	ND		1.0	ug/L			05/09/24 10:23	1
Bromomethane	ND		2.0	ug/L			05/09/24 10:23	1
2-Butanone (MEK)	ND		2.0	ug/L			05/09/24 10:23	1
n-Butylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
sec-Butylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
tert-Butylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
Carbon disulfide	ND		2.0	ug/L			05/09/24 10:23	1
Carbon tetrachloride	ND		1.0	ug/L			05/09/24 10:23	1
Chlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
Chloroethane	ND		2.0	ug/L			05/09/24 10:23	1
Chloroform	ND		1.0	ug/L			05/09/24 10:23	1
Chloromethane	ND		2.0	ug/L			05/09/24 10:23	1
2-Chlorotoluene	ND		1.0	ug/L			05/09/24 10:23	1
4-Chlorotoluene	ND		1.0	ug/L			05/09/24 10:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/09/24 10:23	1
Dibromochloromethane	ND		0.50	ug/L			05/09/24 10:23	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/09/24 10:23	1
Dibromomethane	ND		1.0	ug/L			05/09/24 10:23	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/09/24 10:23	1
1,1-Dichloroethane	ND		1.0	ug/L			05/09/24 10:23	1
1,2-Dichloroethane	ND		1.0	ug/L			05/09/24 10:23	1
1,1-Dichloroethene	ND		1.0	ug/L			05/09/24 10:23	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/09/24 10:23	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/09/24 10:23	1
1,2-Dichloropropane	ND		1.0	ug/L			05/09/24 10:23	1
1,3-Dichloropropane	ND		1.0	ug/L			05/09/24 10:23	1
2,2-Dichloropropane	ND		1.0	ug/L			05/09/24 10:23	1
1,1-Dichloropropene	ND		1.0	ug/L			05/09/24 10:23	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/09/24 10:23	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/09/24 10:23	1
Ethylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
Hexachlorobutadiene	ND		1.0	ug/L			05/09/24 10:23	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/09/24 10:23	1
Isopropylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
4-Isopropyltoluene	ND		1.0	ug/L			05/09/24 10:23	1
Methyl tert-butyl ether	ND		1.0	ug/L			05/09/24 10:23	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/09/24 10:23	1
Methylene Chloride	ND		2.0	ug/L			05/09/24 10:23	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: MB 620-34530/7

Matrix: Water

Analysis Batch: 34530

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	ug/L			05/09/24 10:23	1
N-Propylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
Styrene	ND		1.0	ug/L			05/09/24 10:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/09/24 10:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/09/24 10:23	1
Tetrachloroethene	ND		1.0	ug/L			05/09/24 10:23	1
Toluene	ND		1.0	ug/L			05/09/24 10:23	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/09/24 10:23	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/09/24 10:23	1
Trichloroethene	ND		1.0	ug/L			05/09/24 10:23	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/09/24 10:23	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/09/24 10:23	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/09/24 10:23	1
Vinyl chloride	ND		1.0	ug/L			05/09/24 10:23	1
m,p-Xylene	ND		1.0	ug/L			05/09/24 10:23	1
o-Xylene	ND		1.0	ug/L			05/09/24 10:23	1
Tetrahydrofuran	ND		2.0	ug/L			05/09/24 10:23	1
Ethyl ether	ND		1.0	ug/L			05/09/24 10:23	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/09/24 10:23	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/09/24 10:23	1
di-Isopropyl ether	ND		1.0	ug/L			05/09/24 10:23	1
tert-Butanol	ND		10	ug/L			05/09/24 10:23	1
1,4-Dioxane	ND		50	ug/L			05/09/24 10:23	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/09/24 10:23	1
Ethanol	ND		200	ug/L			05/09/24 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		05/09/24 10:23	1
Toluene-d8 (Surr)	98		70 - 130		05/09/24 10:23	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		05/09/24 10:23	1
Dibromofluoromethane (Surr)	95		70 - 130		05/09/24 10:23	1

Lab Sample ID: LCS 620-34530/4

Matrix: Water

Analysis Batch: 34530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.8		ug/L		89	85 - 124
Acetone	20.0	10.0		ug/L		50	14 - 133
Acrylonitrile	20.0	18.6		ug/L		93	62 - 134
Benzene	20.0	20.9		ug/L		105	86 - 111
Bromobenzene	20.0	18.3		ug/L		92	82 - 120
Bromochloromethane	20.0	19.9		ug/L		99	83 - 123
Bromodichloromethane	20.0	20.0		ug/L		100	83 - 137

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: LCS 620-34530/4

Matrix: Water

Analysis Batch: 34530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	19.9		ug/L		100	91 - 137
Bromomethane	20.0	15.3		ug/L		76	29 - 148
2-Butanone (MEK)	20.0	12.0		ug/L		60	10 - 200
n-Butylbenzene	20.0	24.5		ug/L		122	85 - 138
sec-Butylbenzene	20.0	22.0		ug/L		110	75 - 118
tert-Butylbenzene	20.0	21.3		ug/L		107	85 - 122
Carbon disulfide	20.0	19.4		ug/L		97	69 - 150
Carbon tetrachloride	20.0	18.2		ug/L		91	84 - 123
Chlorobenzene	20.0	20.0		ug/L		100	93 - 115
Chloroethane	20.0	18.8		ug/L		94	56 - 155
Chloroform	20.0	18.3		ug/L		91	84 - 116
Chloromethane	20.0	13.0		ug/L		65	45 - 138
2-Chlorotoluene	20.0	20.8		ug/L		104	88 - 116
4-Chlorotoluene	20.0	21.6		ug/L		108	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	16.8		ug/L		84	70 - 139
Dibromochloromethane	20.0	19.5		ug/L		98	83 - 132
1,2-Dibromoethane (EDB)	20.0	19.6		ug/L		98	82 - 125
Dibromomethane	20.0	19.7		ug/L		98	80 - 125
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	84 - 128
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	85 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	12.3		ug/L		61	36 - 131
1,1-Dichloroethane	20.0	19.5		ug/L		98	81 - 120
1,2-Dichloroethane	20.0	17.1		ug/L		85	82 - 116
1,1-Dichloroethene	20.0	20.1		ug/L		100	83 - 120
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	81 - 124
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	81 - 127
1,2-Dichloropropane	20.0	20.2		ug/L		101	76 - 132
1,3-Dichloropropane	20.0	19.6		ug/L		98	74 - 122
2,2-Dichloropropane	20.0	19.0		ug/L		95	77 - 130
1,1-Dichloropropene	20.0	19.0		ug/L		95	81 - 115
cis-1,3-Dichloropropene	20.0	19.9		ug/L		99	74 - 129
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	78 - 126
Ethylbenzene	20.0	20.6		ug/L		103	89 - 117
Hexachlorobutadiene	20.0	16.9		ug/L		84	77 - 118
2-Hexanone (MBK)	20.0	14.6		ug/L		73	37 - 123
Isopropylbenzene	20.0	21.4		ug/L		107	83 - 117
4-Isopropyltoluene	20.0	18.9		ug/L		94	83 - 124
Methyl tert-butyl ether	20.0	19.1		ug/L		96	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		86	59 - 118
Methylene Chloride	20.0	19.6		ug/L		98	75 - 121
Naphthalene	20.0	18.7		ug/L		94	67 - 123
N-Propylbenzene	20.0	22.0		ug/L		110	84 - 128
Styrene	20.0	20.2		ug/L		101	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/L		94	91 - 118
1,1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		97	77 - 129
Tetrachloroethene	20.0	18.9		ug/L		94	85 - 116
Toluene	20.0	19.8		ug/L		99	88 - 109

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: LCS 620-34530/4

Matrix: Water

Analysis Batch: 34530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	67 - 134
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		94	78 - 133
1,3,5-Trichlorobenzene	20.0	19.5		ug/L		98	77 - 127
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	83 - 124
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	84 - 132
Trichloroethene	20.0	18.4		ug/L		92	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	18.5		ug/L		92	82 - 126
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	77 - 124
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	89 - 126
1,3,5-Trimethylbenzene	20.0	22.5		ug/L		113	89 - 125
Vinyl chloride	20.0	18.0		ug/L		90	62 - 130
m,p-Xylene	40.0	45.7		ug/L		114	85 - 123
o-Xylene	20.0	22.2		ug/L		111	85 - 119
Tetrahydrofuran	20.0	17.5		ug/L		88	60 - 133
Ethyl ether	20.0	18.2		ug/L		91	69 - 122
Tert-amyl methyl ether	20.0	19.7		ug/L		98	50 - 140
Ethyl tert-butyl ether	20.0	19.3		ug/L		97	60 - 131
di-Isopropyl ether	20.0	17.3		ug/L		86	67 - 125
tert-Butanol	200	199		ug/L		100	50 - 169
1,4-Dioxane	200	191		ug/L		95	28 - 150
trans-1,4-Dichloro-2-butene	20.0	17.9		ug/L		90	48 - 153
Ethanol	400	323		ug/L		81	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Lab Sample ID: LCSD 620-34530/5

Matrix: Water

Analysis Batch: 34530

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.2		ug/L		86	85 - 124	3	20
Acetone	20.0	9.11	J	ug/L		46	14 - 133	10	20
Acrylonitrile	20.0	18.7		ug/L		94	62 - 134	1	20
Benzene	20.0	20.5		ug/L		102	86 - 111	2	20
Bromobenzene	20.0	18.0		ug/L		90	82 - 120	2	20
Bromochloromethane	20.0	19.3		ug/L		96	83 - 123	3	20
Bromodichloromethane	20.0	20.4		ug/L		102	83 - 137	2	20
Bromoform	20.0	19.4		ug/L		97	91 - 137	2	20
Bromomethane	20.0	16.0		ug/L		80	29 - 148	5	20
2-Butanone (MEK)	20.0	11.3		ug/L		57	10 - 200	6	20
n-Butylbenzene	20.0	23.7		ug/L		118	85 - 138	3	20
sec-Butylbenzene	20.0	21.6		ug/L		108	75 - 118	2	20
tert-Butylbenzene	20.0	20.8		ug/L		104	85 - 122	2	20

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: LCSD 620-34530/5

Matrix: Water

Analysis Batch: 34530

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 Limit
Carbon disulfide	20.0	18.5		ug/L		92	69 - 150	5	20
Carbon tetrachloride	20.0	17.9		ug/L		89	84 - 123	2	20
Chlorobenzene	20.0	19.4		ug/L		97	93 - 115	3	20
Chloroethane	20.0	18.2		ug/L		91	56 - 155	3	20
Chloroform	20.0	18.0		ug/L		90	84 - 116	1	20
Chloromethane	20.0	13.0		ug/L		65	45 - 138	0	20
2-Chlorotoluene	20.0	20.7		ug/L		104	88 - 116	1	20
4-Chlorotoluene	20.0	21.4		ug/L		107	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/L		83	70 - 139	1	20
Dibromochloromethane	20.0	19.2		ug/L		96	83 - 132	1	20
1,2-Dibromoethane (EDB)	20.0	19.7		ug/L		98	82 - 125	0	20
Dibromomethane	20.0	19.3		ug/L		96	80 - 125	2	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	84 - 128	2	20
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	85 - 120	3	20
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	86 - 116	2	20
Dichlorodifluoromethane (Freon 12)	20.0	12.1		ug/L		61	36 - 131	1	20
1,1-Dichloroethane	20.0	19.2		ug/L		96	81 - 120	2	20
1,2-Dichloroethane	20.0	17.0		ug/L		85	82 - 116	1	20
1,1-Dichloroethene	20.0	20.2		ug/L		101	83 - 120	1	20
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	81 - 124	1	20
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	81 - 127	2	20
1,2-Dichloropropane	20.0	19.5		ug/L		97	76 - 132	4	20
1,3-Dichloropropane	20.0	19.3		ug/L		96	74 - 122	1	20
2,2-Dichloropropane	20.0	18.6		ug/L		93	77 - 130	2	20
1,1-Dichloropropene	20.0	18.7		ug/L		93	81 - 115	2	20
cis-1,3-Dichloropropene	20.0	19.7		ug/L		98	74 - 129	1	20
trans-1,3-Dichloropropene	20.0	20.7		ug/L		104	78 - 126	0	20
Ethylbenzene	20.0	20.2		ug/L		101	89 - 117	2	20
Hexachlorobutadiene	20.0	16.6		ug/L		83	77 - 118	1	20
2-Hexanone (MBK)	20.0	15.7		ug/L		78	37 - 123	7	20
Isopropylbenzene	20.0	20.8		ug/L		104	83 - 117	3	20
4-Isopropyltoluene	20.0	18.8		ug/L		94	83 - 124	1	20
Methyl tert-butyl ether	20.0	19.0		ug/L		95	70 - 126	0	20
4-Methyl-2-pentanone (MIBK)	20.0	16.8		ug/L		84	59 - 118	2	20
Methylene Chloride	20.0	19.2		ug/L		96	75 - 121	2	20
Naphthalene	20.0	18.1		ug/L		91	67 - 123	3	20
N-Propylbenzene	20.0	21.4		ug/L		107	84 - 128	3	20
Styrene	20.0	19.6		ug/L		98	78 - 127	3	20
1,1,1,2-Tetrachloroethane	20.0	18.6		ug/L		93	91 - 118	1	20
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	77 - 129	3	20
Tetrachloroethene	20.0	18.6		ug/L		93	85 - 116	1	20
Toluene	20.0	19.0		ug/L		95	88 - 109	4	20
1,2,3-Trichlorobenzene	20.0	19.2		ug/L		96	67 - 134	2	20
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	78 - 133	2	20
1,3,5-Trichlorobenzene	20.0	19.1		ug/L		96	77 - 127	2	20
1,1,1-Trichloroethane	20.0	18.5		ug/L		92	83 - 124	1	20
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	84 - 132	0	20
Trichloroethene	20.0	17.5		ug/L		87	74 - 118	5	20

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

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

Lab Sample ID: LCSD 620-34530/5

Matrix: Water

Analysis Batch: 34530

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 Limit
Trichlorofluoromethane (Freon 11)	20.0	17.9		ug/L		89	82 - 126	3	20
1,2,3-Trichloropropane	20.0	18.6		ug/L		93	77 - 124	3	20
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	89 - 126	2	20
1,3,5-Trimethylbenzene	20.0	21.7		ug/L		109	89 - 125	3	20
Vinyl chloride	20.0	18.2		ug/L		91	62 - 130	1	20
m,p-Xylene	40.0	44.5		ug/L		111	85 - 123	3	20
o-Xylene	20.0	21.7		ug/L		108	85 - 119	2	20
Tetrahydrofuran	20.0	17.6		ug/L		88	60 - 133	1	20
Ethyl ether	20.0	17.6		ug/L		88	69 - 122	3	20
Tert-amyl methyl ether	20.0	19.6		ug/L		98	50 - 140	1	20
Ethyl tert-butyl ether	20.0	19.0		ug/L		95	60 - 131	2	20
di-Isopropyl ether	20.0	17.1		ug/L		85	67 - 125	1	20
tert-Butanol	200	189		ug/L		95	50 - 169	5	20
1,4-Dioxane	200	198		ug/L		99	28 - 150	4	20
trans-1,4-Dichloro-2-butene	20.0	18.5		ug/L		92	48 - 153	3	20
Ethanol	400	363		ug/L		91	47 - 170	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

GC/MS VOA

Analysis Batch: 34530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18388-1	4R Day 0 Ctrl	Total/NA	Water	8260C	
620-18388-1 - DL	4R Day 0 Ctrl	Total/NA	Water	8260C	
620-18388-2	6 Day 0 Ctrl	Total/NA	Water	8260C	
620-18388-2 - DL	6 Day 0 Ctrl	Total/NA	Water	8260C	
MB 620-34530/7	Method Blank	Total/NA	Water	8260C	
LCS 620-34530/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-34530/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Client Sample ID: 4R Day 0 Ctrl

Date Collected: 05/02/24 09:00

Date Received: 05/02/24 17:49

Lab Sample ID: 620-18388-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	34530	CLR	EET RI	05/09/24 13:15
Total/NA	Analysis	8260C	DL	100	34530	CLR	EET RI	05/09/24 14:55

Client Sample ID: 6 Day 0 Ctrl

Date Collected: 05/02/24 09:10

Date Received: 05/02/24 17:49

Lab Sample ID: 620-18388-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	34530	CLR	EET RI	05/09/24 13:39
Total/NA	Analysis	8260C	DL	100	34530	CLR	EET RI	05/09/24 15:19

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

Accreditation/Certification Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Rhode Island

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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

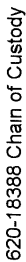
Sample Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18388-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-18388-1	4R Day 0 Ctrl	Water	05/02/24 09:00	05/02/24 17:49
620-18388-2	6 Day 0 Ctrl	Water	05/02/24 09:10	05/02/24 17:49

- 1
- 2
- 3
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- 5
- 6
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- 8
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- 11
- 12
- 13
- 14
- 15



CHAIN OF CUSTODY RECORD

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed

All Γ ATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 1 of 1

[illegible]

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-18388-1

Login Number: 18388

List Source: Eurofins Rhode Island

List Number: 1

Creator: Makhoul, Elie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

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JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-17101-1

Eurofins New England

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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Authorized for release by
Becky Mason, Project Manager II
Becky.Mason@et.eurofinsus.com
(413)572-4000



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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Job ID: 620-17101-1

Eurofins New England

Job Narrative 620-17101-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/28/2024 5:16 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 0.8°C.

Receipt Exceptions

Sample EA6/1R Day 15b, 0.5x (620-17101-21) did not have percent solids jar. Per client request we will use percent solid results from sample 620-17101-11.

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-32402 recovered outside in-house control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Benzene, Bromoform, Carbon tetrachloride, 1,2-Dichloroethane, 1,1,1,2-Tetrachloroethane and 1,1,1-Trichloroethane. These analytes were biased high/low in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-32402 recovered outside control limits for the following analytes: Acrylonitrile, Chloroethane, Chloromethane, Trichlorofluoromethane (Freon 11), Tetrahydrofuran and di-isopropyl ether. These analytes were biased high in the LCS and LCSD were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-32402 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Benzene, Bromoform, Carbon tetrachloride, 1,2-Dichloroethane, Naphthalene, 1,1,1,2-Tetrachloroethane and 1,1,1-Trichloroethane. These analytes were biased high/low in the LCSD but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32402 exhibited % difference of > 20% for the following analytes: Benzene, Hexachlorobutadiene, Vinyl chloride and Ethyl tert-butyl ether; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Trichlorofluoromethane and Carbon tetrachloride. Affected analytes (biased high): Isopropyl ether, Tetrahydrofuran, Acrylonitrile, and 1,2-Dichloropropane. (CCVIS 620-32402/3)

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: EA6/1R Day 15, 0.5x (620-17101-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-32421 recovered outside in-house control limits for the following analyte: Benzene. This analyte was biased high in the LCS

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Case Narrative

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and LCSD but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within the method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32421 exhibited % difference of > 50% for the following poor performing analyte: Acetone; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that poor performing target analytes in the continuing calibration verification standard be within 50% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): Vinyl chloride and Acrylonitrile.
(CCVIS 620-32421/3)

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: EA6/1R Day 15, 2x (620-17101-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32359 exhibited % difference of > 20% for the following analytes: Benzene, 1,3-Dichlorobenzene and 1,2,3-Trichloropropane; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): trans-1,4-Dichloro-2-butene.
(CCVIS 620-32359/3)

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Hexachlorobutadiene. Affected analytes (biased high): Vinyl chloride, Ethanol, Acrylonitrile, trans-1,4-Dichloro-2-butene, Ethyl ether, Tetrahydrofuran, and Isopropyl ether.
(CCVIS 620-32446/3)

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-32470 and analytical batch 620-32446 recovered outside control limits for the following analytes: Acrylonitrile, Chloromethane and Vinyl chloride. These analytes were biased high/low in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-32470 and analytical batch 620-32446 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Chloromethane, Vinyl chloride and Ethanol. These analytes were biased high/low in the LCSD and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-32343 and analytical batch 620-32316 recovered outside control limits for the following analyte: Naphthalene. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte (biased high): Naphthalene.
(CCVIS 620-32316/3)

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32362 exhibited % difference of > 20% for the following analytes: 1,2-Dibromo-3-Chloropropane, Hexachlorobutadiene, Naphthalene, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3,5-Trichlorobenzene and trans-1,4-Dichloro-2-butene; however, the results of the

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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, the 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.

General Chemistry

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

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Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		100	ug/L	10		8260C	Total/NA
Carbon disulfide	49		20	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	41		10	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.9	*+	1.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	21		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	46		2.0	ug/L	1		8260C	Total/NA
Chloromethane	5.2	*+	2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	22		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	1.1		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	1.4		1.0	ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0	ug/L	1		8260C	Total/NA
Acetone - DL	94		50	ug/L	5		8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	240		100	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	10		10	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84		10	ug/L	1		8260C	Total/NA
Benzene	4.7	*+	1.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	11		2.0	ug/L	1		8260C	Total/NA
Chloromethane	7.4	*+	2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.2		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	15		10	ug/L	1		8260C	Total/NA

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.5		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.4		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	96		10	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	14		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	4.4		2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	38		1.0	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	5.1		2.0	ug/L	1		8260C	Total/NA
tert-Butanol	19		10	ug/L	1		8260C	Total/NA
Benzene - DL	290	*+	20	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	17		2.0	ug/L	1		8260C	Total/NA
Chloromethane	2.0	*+	2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	28		1.0	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	4.1		2.0	ug/L	1		8260C	Total/NA
tert-Butanol	21		10	ug/L	1		8260C	Total/NA
Acetone - DL	75		50	ug/L	10		8260C	Total/NA
Benzene - DL	290	*+	10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	36		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	9.4		2.0	ug/L	1		8260C	Total/NA
Chloromethane	5.9	*+	2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	14		1.0	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	4.1		2.0	ug/L	1		8260C	Total/NA
tert-Butanol	51		10	ug/L	1		8260C	Total/NA
Acetone - DL	270		100	ug/L	10		8260C	Total/NA
Benzene - DL	87	*+	10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	95		10	ug/L	1		8260C	Total/NA
Benzene	8.2	*+	1.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	10		2.0	ug/L	1		8260C	Total/NA
Chloromethane	3.4	*+	2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.8		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	19		10	ug/L	1		8260C	Total/NA

Client Sample ID: 4R Day 15,ctrl

Lab Sample ID: 620-17101-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7	*+	1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	48		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	22		10	ug/L	1		8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	31		10	ug/Kg	1	✳	8260C	Total/NA
Tetrachloroethene	6.9		5.2	ug/Kg	1	✳	8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	34		7.0	ug/Kg	1	✳	8260C	Total/NA
Tetrachloroethene	7.2		3.5	ug/Kg	1	✳	8260C	Total/NA
m,p-Xylene	4.1		3.5	ug/Kg	1	✳	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	22		8.2	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene	5.6		4.1	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	46		43	ug/Kg	1	✖	8260C	Total/NA
Benzene	4.6		4.3	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	23		8.5	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene	12		4.3	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	8.5		4.1	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	250	E	4.2	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	44		8.5	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	580		46	ug/Kg	1	✖	8260C	Total/NA
n-Butylbenzene - ME	60		46	ug/Kg	1	✖	8260C	Total/NA
sec-Butylbenzene - ME	48		46	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	190	E	4.4	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	48		8.8	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	780		43	ug/Kg	1	✖	8260C	Total/NA
n-Butylbenzene - ME	48		43	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide - ME	220		86	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		4.2	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	64		8.4	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	67		3.9	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	35		7.8	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-20

No Detections.

Client Sample ID: EA6/1R Day 15b, 0.5x

Lab Sample ID: 620-17101-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.9		4.6	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	42		9.2	ug/Kg	1	✖	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 0.5x (Continued)

Lab Sample ID: 620-17101-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	8.0		4.6	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	4.6		4.6	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 15b, 1x

Lab Sample ID: 620-17101-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	26		8.2	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	5.2		4.1	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 15b, 2x

Lab Sample ID: 620-17101-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	20		6.6	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	4.6		3.3	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 15b, 3x

Lab Sample ID: 620-17101-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.2		4.1	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	8.8		8.2	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	22		8.2	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	9.9		4.1	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 15b, ctrl

Lab Sample ID: 620-17101-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.5		4.0	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	290	E	4.7	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	68		9.5	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	890		47	ug/Kg	1	✱	8260C	Total/NA
n-Butylbenzene - ME	55		47	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	150		94	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	300	E	4.1	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	90		8.2	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	760		44	ug/Kg	1	✱	8260C	Total/NA
n-Butylbenzene - ME	50		44	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	280		89	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	150		4.1	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	77		8.1	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates

Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	92		4.0	ug/Kg	1	✧	8260C	Total/NA
Carbon disulfide	48		7.9	ug/Kg	1	✧	8260C	Total/NA

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-30

No Detections.

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-1

Date Collected: 02/26/24 08:00

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	10	ug/L			03/05/24 02:36	10
Acetone	120		100	ug/L			03/05/24 02:36	10
Acrylonitrile	ND	*+	5.0	ug/L			03/05/24 02:36	10
Benzene	ND	*+	10	ug/L			03/05/24 02:36	10
Bromobenzene	ND		10	ug/L			03/05/24 02:36	10
Bromochloromethane	ND		10	ug/L			03/05/24 02:36	10
Bromodichloromethane	ND		5.0	ug/L			03/05/24 02:36	10
Bromoform	ND	*-	10	ug/L			03/05/24 02:36	10
Bromomethane	ND		20	ug/L			03/05/24 02:36	10
2-Butanone (MEK)	ND		20	ug/L			03/05/24 02:36	10
n-Butylbenzene	ND		10	ug/L			03/05/24 02:36	10
sec-Butylbenzene	ND		10	ug/L			03/05/24 02:36	10
tert-Butylbenzene	ND		10	ug/L			03/05/24 02:36	10
Carbon disulfide	49		20	ug/L			03/05/24 02:36	10
Carbon tetrachloride	ND	*-	10	ug/L			03/05/24 02:36	10
Chlorobenzene	ND		10	ug/L			03/05/24 02:36	10
Chloroethane	ND	*-	20	ug/L			03/05/24 02:36	10
Chloroform	ND		10	ug/L			03/05/24 02:36	10
Chloromethane	ND	*+	20	ug/L			03/05/24 02:36	10
2-Chlorotoluene	ND		10	ug/L			03/05/24 02:36	10
4-Chlorotoluene	ND		10	ug/L			03/05/24 02:36	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/05/24 02:36	10
Dibromochloromethane	ND		5.0	ug/L			03/05/24 02:36	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/05/24 02:36	10
Dibromomethane	ND		10	ug/L			03/05/24 02:36	10
1,2-Dichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
1,3-Dichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
1,4-Dichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/05/24 02:36	10
1,1-Dichloroethane	ND		10	ug/L			03/05/24 02:36	10
1,2-Dichloroethane	ND	*-	10	ug/L			03/05/24 02:36	10
1,1-Dichloroethene	ND		10	ug/L			03/05/24 02:36	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/05/24 02:36	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/05/24 02:36	10
1,2-Dichloropropane	ND		10	ug/L			03/05/24 02:36	10
1,3-Dichloropropane	ND		10	ug/L			03/05/24 02:36	10
2,2-Dichloropropane	ND		10	ug/L			03/05/24 02:36	10
1,1-Dichloropropene	ND		10	ug/L			03/05/24 02:36	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/05/24 02:36	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/05/24 02:36	10
Ethylbenzene	ND		10	ug/L			03/05/24 02:36	10
Hexachlorobutadiene	ND		10	ug/L			03/05/24 02:36	10
2-Hexanone (MBK)	ND		20	ug/L			03/05/24 02:36	10
Isopropylbenzene	ND		10	ug/L			03/05/24 02:36	10
4-Isopropyltoluene	ND		10	ug/L			03/05/24 02:36	10
Methyl tert-butyl ether	41		10	ug/L			03/05/24 02:36	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/05/24 02:36	10
Methylene Chloride	ND		20	ug/L			03/05/24 02:36	10
Naphthalene	ND	*+	20	ug/L			03/05/24 02:36	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-1

Date Collected: 02/26/24 08:00

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		10	ug/L			03/05/24 02:36	10
Styrene	ND		10	ug/L			03/05/24 02:36	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			03/05/24 02:36	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/05/24 02:36	10
Tetrachloroethene	ND		10	ug/L			03/05/24 02:36	10
Toluene	ND		10	ug/L			03/05/24 02:36	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/05/24 02:36	10
1,1,1-Trichloroethane	ND	*-	10	ug/L			03/05/24 02:36	10
1,1,2-Trichloroethane	ND		10	ug/L			03/05/24 02:36	10
Trichloroethene	ND		10	ug/L			03/05/24 02:36	10
Trichlorofluoromethane (Freon 11)	ND	*-	10	ug/L			03/05/24 02:36	10
1,2,3-Trichloropropane	ND		10	ug/L			03/05/24 02:36	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/05/24 02:36	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/05/24 02:36	10
Vinyl chloride	ND		10	ug/L			03/05/24 02:36	10
m,p-Xylene	ND		10	ug/L			03/05/24 02:36	10
o-Xylene	ND		10	ug/L			03/05/24 02:36	10
Tetrahydrofuran	ND	*+	20	ug/L			03/05/24 02:36	10
Ethyl ether	ND		10	ug/L			03/05/24 02:36	10
Tert-amyl methyl ether	ND		10	ug/L			03/05/24 02:36	10
Ethyl tert-butyl ether	ND		10	ug/L			03/05/24 02:36	10
di-Isopropyl ether	ND	*+	10	ug/L			03/05/24 02:36	10
tert-Butanol	ND		100	ug/L			03/05/24 02:36	10
1,4-Dioxane	ND		500	ug/L			03/05/24 02:36	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/05/24 02:36	10
Ethanol	ND		2000	ug/L			03/05/24 02:36	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/05/24 02:36	10
Toluene-d8 (Surr)	97		70 - 130				03/05/24 02:36	10
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				03/05/24 02:36	10
Dibromofluoromethane (Surr)	92		70 - 130				03/05/24 02:36	10

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-2

Date Collected: 02/26/24 08:10

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 00:29	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 00:29	1
Benzene	3.9	*+	1.0	ug/L			03/05/24 00:29	1
Bromobenzene	ND		1.0	ug/L			03/05/24 00:29	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 00:29	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 00:29	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 00:29	1
Bromomethane	ND		2.0	ug/L			03/05/24 00:29	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-2

Date Collected: 02/26/24 08:10

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	21		2.0	ug/L			03/05/24 00:29	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
Carbon disulfide	46		2.0	ug/L			03/05/24 00:29	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 00:29	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 00:29	1
Chloroform	ND		1.0	ug/L			03/05/24 00:29	1
Chloromethane	5.2	*+	2.0	ug/L			03/05/24 00:29	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:29	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 00:29	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 00:29	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 00:29	1
Dibromomethane	ND		1.0	ug/L			03/05/24 00:29	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 00:29	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 00:29	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 00:29	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 00:29	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:29	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:29	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:29	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 00:29	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:29	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 00:29	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:29	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:29	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 00:29	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 00:29	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 00:29	1
Methyl tert-butyl ether	22		1.0	ug/L			03/05/24 00:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/05/24 00:29	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 00:29	1
Naphthalene	ND	*+	2.0	ug/L			03/05/24 00:29	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
Styrene	ND		1.0	ug/L			03/05/24 00:29	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/05/24 00:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 00:29	1
Tetrachloroethene	2.7		1.0	ug/L			03/05/24 00:29	1
Toluene	ND		1.0	ug/L			03/05/24 00:29	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:29	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-2

Date Collected: 02/26/24 08:10

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*-	1.0	ug/L			03/05/24 00:29	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 00:29	1
Trichloroethene	ND		1.0	ug/L			03/05/24 00:29	1
Trichlorofluoromethane (Freon 11)	ND	*-	1.0	ug/L			03/05/24 00:29	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 00:29	1
1,2,4-Trimethylbenzene	1.1		1.0	ug/L			03/05/24 00:29	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 00:29	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 00:29	1
m,p-Xylene	1.4		1.0	ug/L			03/05/24 00:29	1
o-Xylene	1.1		1.0	ug/L			03/05/24 00:29	1
Tetrahydrofuran	ND	*+	2.0	ug/L			03/05/24 00:29	1
Ethyl ether	ND		1.0	ug/L			03/05/24 00:29	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 00:29	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 00:29	1
di-Isopropyl ether	ND	*+	1.0	ug/L			03/05/24 00:29	1
tert-Butanol	ND		10	ug/L			03/05/24 00:29	1
1,4-Dioxane	ND		50	ug/L			03/05/24 00:29	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 00:29	1
Ethanol	ND		200	ug/L			03/05/24 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/05/24 00:29	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 00:29	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		03/05/24 00:29	1
Dibromofluoromethane (Surr)	91		70 - 130		03/05/24 00:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	94		50	ug/L			03/05/24 13:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		03/05/24 13:22	5
Toluene-d8 (Surr)	100		70 - 130		03/05/24 13:22	5
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/05/24 13:22	5
Dibromofluoromethane (Surr)	100		70 - 130		03/05/24 13:22	5

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-3

Date Collected: 02/26/24 08:20

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		10	ug/L			03/05/24 13:48	10
Acetone	240		100	ug/L			03/05/24 13:48	10
Acrylonitrile	ND		5.0	ug/L			03/05/24 13:48	10
Benzene	ND	*+	10	ug/L			03/05/24 13:48	10
Bromobenzene	ND		10	ug/L			03/05/24 13:48	10
Bromochloromethane	ND		10	ug/L			03/05/24 13:48	10
Bromodichloromethane	ND		5.0	ug/L			03/05/24 13:48	10
Bromoform	ND		10	ug/L			03/05/24 13:48	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-3

Date Collected: 02/26/24 08:20

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		20	ug/L			03/05/24 13:48	10
2-Butanone (MEK)	ND		20	ug/L			03/05/24 13:48	10
n-Butylbenzene	ND		10	ug/L			03/05/24 13:48	10
sec-Butylbenzene	ND		10	ug/L			03/05/24 13:48	10
tert-Butylbenzene	ND		10	ug/L			03/05/24 13:48	10
Carbon disulfide	ND		20	ug/L			03/05/24 13:48	10
Carbon tetrachloride	ND		10	ug/L			03/05/24 13:48	10
Chlorobenzene	ND		10	ug/L			03/05/24 13:48	10
Chloroethane	ND		20	ug/L			03/05/24 13:48	10
Chloroform	ND		10	ug/L			03/05/24 13:48	10
Chloromethane	ND		20	ug/L			03/05/24 13:48	10
2-Chlorotoluene	ND		10	ug/L			03/05/24 13:48	10
4-Chlorotoluene	ND		10	ug/L			03/05/24 13:48	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/05/24 13:48	10
Dibromochloromethane	ND		5.0	ug/L			03/05/24 13:48	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/05/24 13:48	10
Dibromomethane	ND		10	ug/L			03/05/24 13:48	10
1,2-Dichlorobenzene	ND		10	ug/L			03/05/24 13:48	10
1,3-Dichlorobenzene	ND		10	ug/L			03/05/24 13:48	10
1,4-Dichlorobenzene	ND		10	ug/L			03/05/24 13:48	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/05/24 13:48	10
1,1-Dichloroethane	ND		10	ug/L			03/05/24 13:48	10
1,2-Dichloroethane	ND		10	ug/L			03/05/24 13:48	10
1,1-Dichloroethene	ND		10	ug/L			03/05/24 13:48	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/05/24 13:48	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/05/24 13:48	10
1,2-Dichloropropane	ND		10	ug/L			03/05/24 13:48	10
1,3-Dichloropropane	ND		10	ug/L			03/05/24 13:48	10
2,2-Dichloropropane	ND		10	ug/L			03/05/24 13:48	10
1,1-Dichloropropene	ND		10	ug/L			03/05/24 13:48	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/05/24 13:48	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/05/24 13:48	10
Ethylbenzene	ND		10	ug/L			03/05/24 13:48	10
Hexachlorobutadiene	ND		10	ug/L			03/05/24 13:48	10
2-Hexanone (MBK)	ND		20	ug/L			03/05/24 13:48	10
Isopropylbenzene	ND		10	ug/L			03/05/24 13:48	10
4-Isopropyltoluene	ND		10	ug/L			03/05/24 13:48	10
Methyl tert-butyl ether	10		10	ug/L			03/05/24 13:48	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/05/24 13:48	10
Methylene Chloride	ND		20	ug/L			03/05/24 13:48	10
Naphthalene	ND		20	ug/L			03/05/24 13:48	10
N-Propylbenzene	ND		10	ug/L			03/05/24 13:48	10
Styrene	ND		10	ug/L			03/05/24 13:48	10
1,1,1,2-Tetrachloroethane	ND		10	ug/L			03/05/24 13:48	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/05/24 13:48	10
Tetrachloroethene	ND		10	ug/L			03/05/24 13:48	10
Toluene	ND		10	ug/L			03/05/24 13:48	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/05/24 13:48	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/05/24 13:48	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-3

Date Collected: 02/26/24 08:20

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		10	ug/L			03/05/24 13:48	10
1,1,1-Trichloroethane	ND		10	ug/L			03/05/24 13:48	10
1,1,2-Trichloroethane	ND		10	ug/L			03/05/24 13:48	10
Trichloroethene	ND		10	ug/L			03/05/24 13:48	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/05/24 13:48	10
1,2,3-Trichloropropane	ND		10	ug/L			03/05/24 13:48	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/05/24 13:48	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/05/24 13:48	10
Vinyl chloride	ND		10	ug/L			03/05/24 13:48	10
m,p-Xylene	ND		10	ug/L			03/05/24 13:48	10
o-Xylene	ND		10	ug/L			03/05/24 13:48	10
Tetrahydrofuran	ND		20	ug/L			03/05/24 13:48	10
Ethyl ether	ND		10	ug/L			03/05/24 13:48	10
Tert-amyl methyl ether	ND		10	ug/L			03/05/24 13:48	10
Ethyl tert-butyl ether	ND		10	ug/L			03/05/24 13:48	10
di-Isopropyl ether	ND		10	ug/L			03/05/24 13:48	10
tert-Butanol	ND		100	ug/L			03/05/24 13:48	10
1,4-Dioxane	ND		500	ug/L			03/05/24 13:48	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/05/24 13:48	10
Ethanol	ND		2000	ug/L			03/05/24 13:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		03/05/24 13:48	10
Toluene-d8 (Surr)	99		70 - 130		03/05/24 13:48	10
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		03/05/24 13:48	10
Dibromofluoromethane (Surr)	97		70 - 130		03/05/24 13:48	10

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-4

Date Collected: 02/26/24 08:30

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 00:54	1
Acetone	84		10	ug/L			03/05/24 00:54	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 00:54	1
Benzene	4.7	*+	1.0	ug/L			03/05/24 00:54	1
Bromobenzene	ND		1.0	ug/L			03/05/24 00:54	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 00:54	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 00:54	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 00:54	1
Bromomethane	ND		2.0	ug/L			03/05/24 00:54	1
2-Butanone (MEK)	11		2.0	ug/L			03/05/24 00:54	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
Carbon disulfide	ND		2.0	ug/L			03/05/24 00:54	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 00:54	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-4

Date Collected: 02/26/24 08:30

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	*-	2.0	ug/L			03/05/24 00:54	1
Chloroform	ND		1.0	ug/L			03/05/24 00:54	1
Chloromethane	7.4	*+	2.0	ug/L			03/05/24 00:54	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:54	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 00:54	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 00:54	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 00:54	1
Dibromomethane	ND		1.0	ug/L			03/05/24 00:54	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 00:54	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 00:54	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 00:54	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 00:54	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:54	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:54	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:54	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 00:54	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:54	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 00:54	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:54	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:54	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 00:54	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 00:54	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 00:54	1
Methyl tert-butyl ether	1.2		1.0	ug/L			03/05/24 00:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/05/24 00:54	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 00:54	1
Naphthalene	ND	*+	2.0	ug/L			03/05/24 00:54	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
Styrene	ND		1.0	ug/L			03/05/24 00:54	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/05/24 00:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 00:54	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 00:54	1
Toluene	ND		1.0	ug/L			03/05/24 00:54	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,1,1-Trichloroethane	ND	*-	1.0	ug/L			03/05/24 00:54	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 00:54	1
Trichloroethene	ND		1.0	ug/L			03/05/24 00:54	1
Trichlorofluoromethane (Freon 11)	ND	*-	1.0	ug/L			03/05/24 00:54	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 00:54	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 00:54	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 00:54	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-4

Date Collected: 02/26/24 08:30

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	ug/L			03/05/24 00:54	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 00:54	1
o-Xylene	ND		1.0	ug/L			03/05/24 00:54	1
Tetrahydrofuran	ND	+	2.0	ug/L			03/05/24 00:54	1
Ethyl ether	ND		1.0	ug/L			03/05/24 00:54	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 00:54	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 00:54	1
di-Isopropyl ether	ND	+	1.0	ug/L			03/05/24 00:54	1
tert-Butanol	15		10	ug/L			03/05/24 00:54	1
1,4-Dioxane	ND		50	ug/L			03/05/24 00:54	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 00:54	1
Ethanol	ND		200	ug/L			03/05/24 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/05/24 00:54	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 00:54	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		03/05/24 00:54	1
Dibromofluoromethane (Surr)	90		70 - 130		03/05/24 00:54	1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-5

Date Collected: 02/26/24 08:40

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	-	1.0	ug/L			03/04/24 23:37	1
Acetone	ND		10	ug/L			03/04/24 23:37	1
Acrylonitrile	ND	+	0.50	ug/L			03/04/24 23:37	1
Benzene	ND	+	1.0	ug/L			03/04/24 23:37	1
Bromobenzene	ND		1.0	ug/L			03/04/24 23:37	1
Bromochloromethane	ND		1.0	ug/L			03/04/24 23:37	1
Bromodichloromethane	ND		0.50	ug/L			03/04/24 23:37	1
Bromoform	ND	-	1.0	ug/L			03/04/24 23:37	1
Bromomethane	ND		2.0	ug/L			03/04/24 23:37	1
2-Butanone (MEK)	ND		2.0	ug/L			03/04/24 23:37	1
n-Butylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
sec-Butylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
tert-Butylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
Carbon disulfide	ND		2.0	ug/L			03/04/24 23:37	1
Carbon tetrachloride	ND	-	1.0	ug/L			03/04/24 23:37	1
Chlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
Chloroethane	ND	-	2.0	ug/L			03/04/24 23:37	1
Chloroform	ND		1.0	ug/L			03/04/24 23:37	1
Chloromethane	ND	+	2.0	ug/L			03/04/24 23:37	1
2-Chlorotoluene	ND		1.0	ug/L			03/04/24 23:37	1
4-Chlorotoluene	ND		1.0	ug/L			03/04/24 23:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/04/24 23:37	1
Dibromochloromethane	ND		0.50	ug/L			03/04/24 23:37	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/04/24 23:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-5

Date Collected: 02/26/24 08:40

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	ug/L			03/04/24 23:37	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/04/24 23:37	1
1,1-Dichloroethane	ND		1.0	ug/L			03/04/24 23:37	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/04/24 23:37	1
1,1-Dichloroethene	ND		1.0	ug/L			03/04/24 23:37	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/04/24 23:37	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/04/24 23:37	1
1,2-Dichloropropane	ND		1.0	ug/L			03/04/24 23:37	1
1,3-Dichloropropane	ND		1.0	ug/L			03/04/24 23:37	1
2,2-Dichloropropane	ND		1.0	ug/L			03/04/24 23:37	1
1,1-Dichloropropene	ND		1.0	ug/L			03/04/24 23:37	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/04/24 23:37	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/04/24 23:37	1
Ethylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
Hexachlorobutadiene	ND		1.0	ug/L			03/04/24 23:37	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/04/24 23:37	1
Isopropylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
4-Isopropyltoluene	ND		1.0	ug/L			03/04/24 23:37	1
Methyl tert-butyl ether	5.5		1.0	ug/L			03/04/24 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/04/24 23:37	1
Methylene Chloride	ND		2.0	ug/L			03/04/24 23:37	1
Naphthalene	ND	*+	2.0	ug/L			03/04/24 23:37	1
N-Propylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
Styrene	ND		1.0	ug/L			03/04/24 23:37	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/04/24 23:37	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/04/24 23:37	1
Tetrachloroethene	1.4		1.0	ug/L			03/04/24 23:37	1
Toluene	ND		1.0	ug/L			03/04/24 23:37	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,1,1-Trichloroethane	ND	*-	1.0	ug/L			03/04/24 23:37	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/04/24 23:37	1
Trichloroethene	ND		1.0	ug/L			03/04/24 23:37	1
Trichlorofluoromethane (Freon 11)	ND	*-	1.0	ug/L			03/04/24 23:37	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/04/24 23:37	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/04/24 23:37	1
Vinyl chloride	ND		1.0	ug/L			03/04/24 23:37	1
m,p-Xylene	ND		1.0	ug/L			03/04/24 23:37	1
o-Xylene	ND		1.0	ug/L			03/04/24 23:37	1
Tetrahydrofuran	ND	*+	2.0	ug/L			03/04/24 23:37	1
Ethyl ether	ND		1.0	ug/L			03/04/24 23:37	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/04/24 23:37	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/04/24 23:37	1
di-Isopropyl ether	ND	*+	1.0	ug/L			03/04/24 23:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-5

Date Collected: 02/26/24 08:40

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		10	ug/L			03/04/24 23:37	1
1,4-Dioxane	ND		50	ug/L			03/04/24 23:37	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/04/24 23:37	1
Ethanol	ND		200	ug/L			03/04/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				03/04/24 23:37	1
Toluene-d8 (Surr)	97		70 - 130				03/04/24 23:37	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130				03/04/24 23:37	1
Dibromofluoromethane (Surr)	89		70 - 130				03/04/24 23:37	1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-6

Date Collected: 02/26/24 08:50

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 04:40	1
Acetone	96		10	ug/L			03/05/24 04:40	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 04:40	1
Bromobenzene	ND		1.0	ug/L			03/05/24 04:40	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 04:40	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 04:40	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 04:40	1
Bromomethane	ND		2.0	ug/L			03/05/24 04:40	1
2-Butanone (MEK)	14		2.0	ug/L			03/05/24 04:40	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
Carbon disulfide	4.4		2.0	ug/L			03/05/24 04:40	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 04:40	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 04:40	1
Chloroform	ND		1.0	ug/L			03/05/24 04:40	1
Chloromethane	ND	*+	2.0	ug/L			03/05/24 04:40	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 04:40	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 04:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 04:40	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 04:40	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 04:40	1
Dibromomethane	ND		1.0	ug/L			03/05/24 04:40	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 04:40	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 04:40	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 04:40	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 04:40	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 04:40	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-6

Date Collected: 02/26/24 08:50

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 04:40	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 04:40	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 04:40	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 04:40	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 04:40	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 04:40	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 04:40	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 04:40	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 04:40	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 04:40	1
Methyl tert-butyl ether	38		1.0	ug/L			03/05/24 04:40	1
4-Methyl-2-pentanone (MIBK)	5.1		2.0	ug/L			03/05/24 04:40	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 04:40	1
Naphthalene	ND	*+	2.0	ug/L			03/05/24 04:40	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
Styrene	ND		1.0	ug/L			03/05/24 04:40	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/05/24 04:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 04:40	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 04:40	1
Toluene	ND		1.0	ug/L			03/05/24 04:40	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,1,1-Trichloroethane	ND	*-	1.0	ug/L			03/05/24 04:40	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 04:40	1
Trichloroethene	ND		1.0	ug/L			03/05/24 04:40	1
Trichlorofluoromethane (Freon 11)	ND	*-	1.0	ug/L			03/05/24 04:40	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 04:40	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 04:40	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 04:40	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 04:40	1
o-Xylene	ND		1.0	ug/L			03/05/24 04:40	1
Tetrahydrofuran	ND	*+	2.0	ug/L			03/05/24 04:40	1
Ethyl ether	ND		1.0	ug/L			03/05/24 04:40	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 04:40	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 04:40	1
di-Isopropyl ether	ND	*+	1.0	ug/L			03/05/24 04:40	1
tert-Butanol	19		10	ug/L			03/05/24 04:40	1
1,4-Dioxane	ND		50	ug/L			03/05/24 04:40	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 04:40	1
Ethanol	ND		200	ug/L			03/05/24 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		03/05/24 04:40	1
Toluene-d8 (Surr)	100		70 - 130		03/05/24 04:40	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/05/24 04:40	1
Dibromofluoromethane (Surr)	92		70 - 130		03/05/24 04:40	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-6

Date Collected: 02/26/24 08:50

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	290	*+	20	ug/L			03/05/24 03:26	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/05/24 03:26	20
Toluene-d8 (Surr)	98		70 - 130				03/05/24 03:26	20
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				03/05/24 03:26	20
Dibromofluoromethane (Surr)	94		70 - 130				03/05/24 03:26	20

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-7

Date Collected: 02/26/24 09:00

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 04:15	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 04:15	1
Bromobenzene	ND		1.0	ug/L			03/05/24 04:15	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 04:15	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 04:15	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 04:15	1
Bromomethane	ND		2.0	ug/L			03/05/24 04:15	1
2-Butanone (MEK)	16		2.0	ug/L			03/05/24 04:15	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
Carbon disulfide	17		2.0	ug/L			03/05/24 04:15	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 04:15	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 04:15	1
Chloroform	ND		1.0	ug/L			03/05/24 04:15	1
Chloromethane	2.0	*+	2.0	ug/L			03/05/24 04:15	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 04:15	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 04:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 04:15	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 04:15	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 04:15	1
Dibromomethane	ND		1.0	ug/L			03/05/24 04:15	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 04:15	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 04:15	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 04:15	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 04:15	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 04:15	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 04:15	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 04:15	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 04:15	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 04:15	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-7

Date Collected: 02/26/24 09:00

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 04:15	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 04:15	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 04:15	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 04:15	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 04:15	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 04:15	1
Methyl tert-butyl ether	28		1.0	ug/L			03/05/24 04:15	1
4-Methyl-2-pentanone (MIBK)	4.1		2.0	ug/L			03/05/24 04:15	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 04:15	1
Naphthalene	ND	+	2.0	ug/L			03/05/24 04:15	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
Styrene	ND		1.0	ug/L			03/05/24 04:15	1
1,1,1,2-Tetrachloroethane	ND	-	1.0	ug/L			03/05/24 04:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 04:15	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 04:15	1
Toluene	ND		1.0	ug/L			03/05/24 04:15	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,1,1-Trichloroethane	ND	-	1.0	ug/L			03/05/24 04:15	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 04:15	1
Trichloroethene	ND		1.0	ug/L			03/05/24 04:15	1
Trichlorofluoromethane (Freon 11)	ND	-	1.0	ug/L			03/05/24 04:15	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 04:15	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 04:15	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 04:15	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 04:15	1
o-Xylene	ND		1.0	ug/L			03/05/24 04:15	1
Tetrahydrofuran	ND	+	2.0	ug/L			03/05/24 04:15	1
Ethyl ether	ND		1.0	ug/L			03/05/24 04:15	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 04:15	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 04:15	1
di-Isopropyl ether	ND	+	1.0	ug/L			03/05/24 04:15	1
tert-Butanol	21		10	ug/L			03/05/24 04:15	1
1,4-Dioxane	ND		50	ug/L			03/05/24 04:15	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 04:15	1
Ethanol	ND		200	ug/L			03/05/24 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		03/05/24 04:15	1
Toluene-d8 (Surr)	100		70 - 130		03/05/24 04:15	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		03/05/24 04:15	1
Dibromofluoromethane (Surr)	93		70 - 130		03/05/24 04:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	75		50	ug/L			03/05/24 03:01	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-7

Date Collected: 02/26/24 09:00

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	290	*+	10	ug/L			03/05/24 03:01	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/05/24 03:01	10
Toluene-d8 (Surr)	98		70 - 130				03/05/24 03:01	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				03/05/24 03:01	10
Dibromofluoromethane (Surr)	93		70 - 130				03/05/24 03:01	10

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-8

Date Collected: 02/26/24 09:10

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 01:44	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 01:44	1
Bromobenzene	ND		1.0	ug/L			03/05/24 01:44	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 01:44	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 01:44	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 01:44	1
Bromomethane	ND		2.0	ug/L			03/05/24 01:44	1
2-Butanone (MEK)	36		2.0	ug/L			03/05/24 01:44	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
Carbon disulfide	9.4		2.0	ug/L			03/05/24 01:44	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 01:44	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 01:44	1
Chloroform	ND		1.0	ug/L			03/05/24 01:44	1
Chloromethane	5.9	*+	2.0	ug/L			03/05/24 01:44	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 01:44	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 01:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 01:44	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 01:44	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 01:44	1
Dibromomethane	ND		1.0	ug/L			03/05/24 01:44	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 01:44	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 01:44	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 01:44	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 01:44	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 01:44	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 01:44	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 01:44	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 01:44	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 01:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-8

Date Collected: 02/26/24 09:10

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 01:44	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 01:44	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 01:44	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 01:44	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 01:44	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 01:44	1
Methyl tert-butyl ether	14		1.0	ug/L			03/05/24 01:44	1
4-Methyl-2-pentanone (MIBK)	4.1		2.0	ug/L			03/05/24 01:44	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 01:44	1
Naphthalene	ND	+	2.0	ug/L			03/05/24 01:44	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
Styrene	ND		1.0	ug/L			03/05/24 01:44	1
1,1,1,2-Tetrachloroethane	ND	-	1.0	ug/L			03/05/24 01:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 01:44	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 01:44	1
Toluene	ND		1.0	ug/L			03/05/24 01:44	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,1,1-Trichloroethane	ND	-	1.0	ug/L			03/05/24 01:44	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 01:44	1
Trichloroethene	ND		1.0	ug/L			03/05/24 01:44	1
Trichlorofluoromethane (Freon 11)	ND	-	1.0	ug/L			03/05/24 01:44	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 01:44	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 01:44	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 01:44	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 01:44	1
o-Xylene	ND		1.0	ug/L			03/05/24 01:44	1
Tetrahydrofuran	ND	+	2.0	ug/L			03/05/24 01:44	1
Ethyl ether	ND		1.0	ug/L			03/05/24 01:44	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 01:44	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 01:44	1
di-Isopropyl ether	ND	+	1.0	ug/L			03/05/24 01:44	1
tert-Butanol	51		10	ug/L			03/05/24 01:44	1
1,4-Dioxane	ND		50	ug/L			03/05/24 01:44	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 01:44	1
Ethanol	ND		200	ug/L			03/05/24 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		03/05/24 01:44	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 01:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/05/24 01:44	1
Dibromofluoromethane (Surr)	93		70 - 130		03/05/24 01:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	270		100	ug/L			03/05/24 14:13	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-8

Date Collected: 02/26/24 09:10

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	87	*+	10	ug/L			03/05/24 14:13	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/05/24 14:13	10
Toluene-d8 (Surr)	99		70 - 130				03/05/24 14:13	10
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				03/05/24 14:13	10
Dibromofluoromethane (Surr)	97		70 - 130				03/05/24 14:13	10

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-9

Date Collected: 02/26/24 09:20

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 02:10	1
Acetone	95		10	ug/L			03/05/24 02:10	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 02:10	1
Benzene	8.2	*+	1.0	ug/L			03/05/24 02:10	1
Bromobenzene	ND		1.0	ug/L			03/05/24 02:10	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 02:10	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 02:10	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 02:10	1
Bromomethane	ND		2.0	ug/L			03/05/24 02:10	1
2-Butanone (MEK)	10		2.0	ug/L			03/05/24 02:10	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
Carbon disulfide	ND		2.0	ug/L			03/05/24 02:10	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 02:10	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 02:10	1
Chloroform	ND		1.0	ug/L			03/05/24 02:10	1
Chloromethane	3.4	*+	2.0	ug/L			03/05/24 02:10	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 02:10	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 02:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 02:10	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 02:10	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 02:10	1
Dibromomethane	ND		1.0	ug/L			03/05/24 02:10	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 02:10	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 02:10	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 02:10	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 02:10	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 02:10	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 02:10	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 02:10	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-9

Date Collected: 02/26/24 09:20

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 02:10	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 02:10	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 02:10	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 02:10	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 02:10	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 02:10	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 02:10	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 02:10	1
Methyl tert-butyl ether	1.8		1.0	ug/L			03/05/24 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/05/24 02:10	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 02:10	1
Naphthalene	ND	+	2.0	ug/L			03/05/24 02:10	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
Styrene	ND		1.0	ug/L			03/05/24 02:10	1
1,1,1,2-Tetrachloroethane	ND	-	1.0	ug/L			03/05/24 02:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 02:10	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 02:10	1
Toluene	ND		1.0	ug/L			03/05/24 02:10	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,1,1-Trichloroethane	ND	-	1.0	ug/L			03/05/24 02:10	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 02:10	1
Trichloroethene	ND		1.0	ug/L			03/05/24 02:10	1
Trichlorofluoromethane (Freon 11)	ND	-	1.0	ug/L			03/05/24 02:10	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 02:10	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 02:10	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 02:10	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 02:10	1
o-Xylene	ND		1.0	ug/L			03/05/24 02:10	1
Tetrahydrofuran	ND	+	2.0	ug/L			03/05/24 02:10	1
Ethyl ether	ND		1.0	ug/L			03/05/24 02:10	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 02:10	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 02:10	1
di-Isopropyl ether	ND	+	1.0	ug/L			03/05/24 02:10	1
tert-Butanol	19		10	ug/L			03/05/24 02:10	1
1,4-Dioxane	ND		50	ug/L			03/05/24 02:10	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 02:10	1
Ethanol	ND		200	ug/L			03/05/24 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		03/05/24 02:10	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 02:10	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/05/24 02:10	1
Dibromofluoromethane (Surr)	94		70 - 130		03/05/24 02:10	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15,ctrl

Lab Sample ID: 620-17101-10

Date Collected: 02/26/24 09:30

Matrix: Water

Date Received: 02/28/24 17:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/05/24 00:03	1
Acetone	ND		10	ug/L			03/05/24 00:03	1
Acrylonitrile	ND	*+	0.50	ug/L			03/05/24 00:03	1
Benzene	1.7	*+	1.0	ug/L			03/05/24 00:03	1
Bromobenzene	ND		1.0	ug/L			03/05/24 00:03	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 00:03	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 00:03	1
Bromoform	ND	*-	1.0	ug/L			03/05/24 00:03	1
Bromomethane	ND		2.0	ug/L			03/05/24 00:03	1
2-Butanone (MEK)	ND		2.0	ug/L			03/05/24 00:03	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
Carbon disulfide	ND		2.0	ug/L			03/05/24 00:03	1
Carbon tetrachloride	ND	*-	1.0	ug/L			03/05/24 00:03	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
Chloroethane	ND	*-	2.0	ug/L			03/05/24 00:03	1
Chloroform	ND		1.0	ug/L			03/05/24 00:03	1
Chloromethane	ND	*+	2.0	ug/L			03/05/24 00:03	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:03	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 00:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 00:03	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 00:03	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 00:03	1
Dibromomethane	ND		1.0	ug/L			03/05/24 00:03	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 00:03	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 00:03	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			03/05/24 00:03	1
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 00:03	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:03	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 00:03	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:03	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 00:03	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 00:03	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 00:03	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:03	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 00:03	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 00:03	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 00:03	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 00:03	1
Methyl tert-butyl ether	48		1.0	ug/L			03/05/24 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/05/24 00:03	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 00:03	1
Naphthalene	ND	*+	2.0	ug/L			03/05/24 00:03	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15,ctrl

Lab Sample ID: 620-17101-10

Date Collected: 02/26/24 09:30

Matrix: Water

Date Received: 02/28/24 17:16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
Styrene	ND		1.0	ug/L			03/05/24 00:03	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/05/24 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 00:03	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 00:03	1
Toluene	ND		1.0	ug/L			03/05/24 00:03	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,1,1-Trichloroethane	ND	*-	1.0	ug/L			03/05/24 00:03	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 00:03	1
Trichloroethene	ND		1.0	ug/L			03/05/24 00:03	1
Trichlorofluoromethane (Freon 11)	ND	*-	1.0	ug/L			03/05/24 00:03	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 00:03	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 00:03	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 00:03	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 00:03	1
o-Xylene	ND		1.0	ug/L			03/05/24 00:03	1
Tetrahydrofuran	ND	*+	2.0	ug/L			03/05/24 00:03	1
Ethyl ether	ND		1.0	ug/L			03/05/24 00:03	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 00:03	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 00:03	1
di-Isopropyl ether	ND	*+	1.0	ug/L			03/05/24 00:03	1
tert-Butanol	22		10	ug/L			03/05/24 00:03	1
1,4-Dioxane	ND		50	ug/L			03/05/24 00:03	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 00:03	1
Ethanol	ND		200	ug/L			03/05/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/24 00:03	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 00:03	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		03/05/24 00:03	1
Dibromofluoromethane (Surr)	90		70 - 130		03/05/24 00:03	1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Date Collected: 02/26/24 08:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Acetone	ND		52	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Acrylonitrile	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Benzene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Bromobenzene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Bromochloromethane	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Bromodichloromethane	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Bromoform	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Date Collected: 02/26/24 08:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
2-Butanone (MEK)	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
n-Butylbenzene	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
sec-Butylbenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
tert-Butylbenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Carbon disulfide	31		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Carbon tetrachloride	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Chlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Chloroethane	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Chloroform	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Chloromethane	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
2-Chlorotoluene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
4-Chlorotoluene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Dibromochloromethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2-Dibromoethane (EDB)	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Dibromomethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2-Dichlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,3-Dichlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,4-Dichlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,1-Dichloroethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2-Dichloroethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,1-Dichloroethene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
cis-1,2-Dichloroethene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
trans-1,2-Dichloroethene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2-Dichloropropane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,3-Dichloropropane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
2,2-Dichloropropane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,1-Dichloropropene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
cis-1,3-Dichloropropene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
trans-1,3-Dichloropropene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Ethylbenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Hexachlorobutadiene	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
2-Hexanone (MBK)	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Isopropylbenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
4-Isopropyltoluene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Methyl tert-butyl ether	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Methylene Chloride	ND		10	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Naphthalene	ND	+	5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
N-Propylbenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Styrene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,1,1,2-Tetrachloroethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,1,2,2-Tetrachloroethane	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Tetrachloroethene	6.9		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
Toluene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2,3-Trichlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1
1,2,4-Trichlorobenzene	ND		5.2	ug/Kg	☆	03/01/24 08:00	03/01/24 15:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Date Collected: 02/26/24 08:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,1,1-Trichloroethane	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,1,2-Trichloroethane	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Trichloroethene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Trichlorofluoromethane (Freon 11)	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,2,3-Trichloropropane	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,2,4-Trimethylbenzene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,3,5-Trimethylbenzene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Vinyl chloride	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
m,p-Xylene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
o-Xylene	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Tetrahydrofuran	ND		10	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Ethyl ether	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Tert-amyl methyl ether	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Ethyl tert-butyl ether	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
di-Isopropyl ether	ND		5.2	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
tert-Butanol	ND		100	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
1,4-Dioxane	ND		100	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
trans-1,4-Dichloro-2-butene	ND		26	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1
Ethanol	ND		1000	ug/Kg	☼	03/01/24 08:00	03/01/24 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 15:37	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 15:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	03/01/24 08:00	03/01/24 15:37	1
Dibromofluoromethane (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 15:37	1

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-12

Date Collected: 02/26/24 08:12

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Acetone	ND		35	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Acrylonitrile	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Benzene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Bromobenzene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Bromochloromethane	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Bromodichloromethane	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Bromoform	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Bromomethane	ND		7.0	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
2-Butanone (MEK)	ND		7.0	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
n-Butylbenzene	ND		7.0	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
sec-Butylbenzene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
tert-Butylbenzene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Carbon disulfide	34		7.0	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Carbon tetrachloride	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Chlorobenzene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-12

Date Collected: 02/26/24 08:12

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 86.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Chloroform	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Chloromethane	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
2-Chlorotoluene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
4-Chlorotoluene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2-Dibromo-3-Chloropropane	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Dibromochloromethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2-Dibromoethane (EDB)	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Dibromomethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2-Dichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,3-Dichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,4-Dichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Dichlorodifluoromethane (Freon 12)	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1-Dichloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2-Dichloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1-Dichloroethene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2-Dichloropropane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,3-Dichloropropane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
2,2-Dichloropropane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1-Dichloropropene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Ethylbenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Hexachlorobutadiene	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
2-Hexanone (MBK)	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Isopropylbenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
4-Isopropyltoluene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Methyl tert-butyl ether	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Methylene Chloride	ND		7.0	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Naphthalene	ND	+	3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
N-Propylbenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Styrene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1,1,2-Tetrachloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Tetrachloroethene	7.2		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Toluene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2,3-Trichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,3,5-Trichlorobenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1,1-Trichloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,1,2-Trichloroethane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Trichloroethene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
Trichlorofluoromethane (Freon 11)	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2,3-Trichloropropane	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,2,4-Trimethylbenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1
1,3,5-Trimethylbenzene	ND		3.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-12

Date Collected: 02/26/24 08:12

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 86.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
m,p-Xylene	4.1		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
o-Xylene	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Tetrahydrofuran	ND		7.0	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Ethyl ether	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Tert-amyl methyl ether	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Ethyl tert-butyl ether	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
di-Isopropyl ether	ND		3.5	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
tert-Butanol	ND		70	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
1,4-Dioxane	ND		70	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
trans-1,4-Dichloro-2-butene	ND		17	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1
Ethanol	ND		700	ug/Kg	☼	03/01/24 08:00	03/01/24 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 16:02	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 16:02	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 16:02	1
Dibromofluoromethane (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 16:02	1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-13

Date Collected: 02/26/24 08:22

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Acetone	ND		41	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Acrylonitrile	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Benzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Bromobenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Bromochloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Bromodichloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Bromoform	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Bromomethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
2-Butanone (MEK)	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
n-Butylbenzene	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
sec-Butylbenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
tert-Butylbenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Carbon disulfide	22		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Carbon tetrachloride	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Chlorobenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Chloroethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Chloroform	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Chloromethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
2-Chlorotoluene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
4-Chlorotoluene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
1,2-Dibromo-3-Chloropropane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
Dibromochloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 16:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-13

Date Collected: 02/26/24 08:22

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Dichlorodifluoromethane (Freon 12)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1-Dichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2-Dichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1-Dichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2-Dichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,3-Dichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
2,2-Dichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1-Dichloropropene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Ethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Hexachlorobutadiene	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
2-Hexanone (MBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Isopropylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
4-Isopropyltoluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Methylene Chloride	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Naphthalene	ND	+	4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
N-Propylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Styrene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Tetrachloroethene	5.6		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Toluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Trichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Vinyl chloride	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
m,p-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
o-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Tetrahydrofuran	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Ethyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
di-Isopropyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-13

Date Collected: 02/26/24 08:22

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
1,4-Dioxane	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Ethanol	ND		820	ug/Kg	✱	03/01/24 08:00	03/01/24 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/01/24 08:00	03/01/24 16:27	1
Toluene-d8 (Surr)	99		70 - 130			03/01/24 08:00	03/01/24 16:27	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130			03/01/24 08:00	03/01/24 16:27	1
Dibromofluoromethane (Surr)	101		70 - 130			03/01/24 08:00	03/01/24 16:27	1

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-14

Date Collected: 02/26/24 08:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Acetone	46		43	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Acrylonitrile	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Benzene	4.6		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Bromobenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Bromochloromethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Bromodichloromethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Bromoform	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Bromomethane	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
2-Butanone (MEK)	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
n-Butylbenzene	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
sec-Butylbenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
tert-Butylbenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Carbon disulfide	23		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Carbon tetrachloride	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Chlorobenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Chloroethane	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Chloroform	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Chloromethane	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
2-Chlorotoluene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
4-Chlorotoluene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,2-Dibromo-3-Chloropropane	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Dibromochloromethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,2-Dibromoethane (EDB)	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Dibromomethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,2-Dichlorobenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,3-Dichlorobenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,4-Dichlorobenzene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
Dichlorodifluoromethane (Freon 12)	ND		8.5	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,1-Dichloroethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,2-Dichloroethane	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1
1,1-Dichloroethene	ND		4.3	ug/Kg	✱	03/01/24 08:00	03/01/24 16:52	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-14

Date Collected: 02/26/24 08:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,2-Dichloropropane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,3-Dichloropropane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
2,2-Dichloropropane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,1-Dichloropropene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Ethylbenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Hexachlorobutadiene	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
2-Hexanone (MBK)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Isopropylbenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
4-Isopropyltoluene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Methyl tert-butyl ether	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Methylene Chloride	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Naphthalene	ND	*+	4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
N-Propylbenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Styrene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Tetrachloroethene	12		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Toluene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,3,5-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,1,1-Trichloroethane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,1,2-Trichloroethane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Trichloroethene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Trichlorofluoromethane (Freon 11)	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,2,3-Trichloropropane	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Vinyl chloride	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
m,p-Xylene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
o-Xylene	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Tetrahydrofuran	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Ethyl ether	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Tert-amyl methyl ether	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Ethyl tert-butyl ether	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
di-Isopropyl ether	ND		4.3	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
tert-Butanol	ND		85	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
1,4-Dioxane	ND		85	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1
Ethanol	ND		850	ug/Kg	☆	03/01/24 08:00	03/01/24 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 16:52	1
Toluene-d8 (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 16:52	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/01/24 08:00	03/01/24 16:52	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-14

Date Collected: 02/26/24 08:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 16:52	1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-15

Date Collected: 02/26/24 08:42

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Acetone	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Acrylonitrile	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Benzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Bromobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Bromochloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Bromodichloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Bromoform	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Bromomethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
2-Butanone (MEK)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
n-Butylbenzene	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
sec-Butylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
tert-Butylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Carbon disulfide	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Carbon tetrachloride	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Chlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Chloroethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Chloroform	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Chloromethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
2-Chlorotoluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
4-Chlorotoluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,2-Dibromo-3-Chloropropane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Dibromochloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Dibromomethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Dichlorodifluoromethane (Freon 12)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,1-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,2-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,1-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,3-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
2,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
1,1-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1
Ethylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 17:17	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-15

Date Collected: 02/26/24 08:42

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 78.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
2-Hexanone (MBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Isopropylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
4-Isopropyltoluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Methylene Chloride	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Naphthalene	ND	*+	4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
N-Propylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Styrene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Tetrachloroethene	8.5		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Toluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Trichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Vinyl chloride	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
m,p-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
o-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Tetrahydrofuran	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Ethyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
di-Isopropyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
tert-Butanol	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
1,4-Dioxane	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1
Ethanol	ND		820	ug/Kg	✱	03/01/24 08:00	03/01/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/01/24 08:00	03/01/24 17:17	1
Toluene-d8 (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 17:17	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	03/01/24 08:00	03/01/24 17:17	1
Dibromofluoromethane (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 17:17	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Acetone	ND		42	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Acrylonitrile	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Benzene	250	E	4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Bromobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Bromochloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Bromodichloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Bromoform	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Bromomethane	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
2-Butanone (MEK)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
n-Butylbenzene	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
sec-Butylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
tert-Butylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Carbon disulfide	44		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Carbon tetrachloride	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Chlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Chloroethane	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Chloroform	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Chloromethane	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
2-Chlorotoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
4-Chlorotoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,2-Dibromo-3-Chloropropane	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Dibromochloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,2-Dibromoethane (EDB)	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Dibromomethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,2-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,3-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,4-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Dichlorodifluoromethane (Freon 12)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,1-Dichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,2-Dichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,1-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,3-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
2,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
1,1-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Ethylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Hexachlorobutadiene	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
2-Hexanone (MBK)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Isopropylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
4-Isopropyltoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Methyl tert-butyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Methylene Chloride	ND		8.5	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1
Naphthalene	ND	+	4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 17:42	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 83.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Styrene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Tetrachloroethene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Toluene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,3,5-Trichlorobenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,1,1-Trichloroethane	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,1,2-Trichloroethane	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Trichloroethene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Trichlorofluoromethane (Freon 11)	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,2,3-Trichloropropane	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Vinyl chloride	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
m,p-Xylene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
o-Xylene	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Tetrahydrofuran	ND		8.5	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Ethyl ether	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Tert-amyl methyl ether	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Ethyl tert-butyl ether	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
di-Isopropyl ether	ND		4.2	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
tert-Butanol	ND		85	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
1,4-Dioxane	ND		85	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1
Ethanol	ND		850	ug/Kg	☼	03/01/24 08:00	03/01/24 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/01/24 08:00	03/01/24 17:42	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 17:42	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 17:42	1
Dibromofluoromethane (Surr)	102		70 - 130	03/01/24 08:00	03/01/24 17:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Acetone	ND		460	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Acrylonitrile	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Benzene	580		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Bromobenzene	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Bromochloromethane	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Bromodichloromethane	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Bromoform	ND		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
Bromomethane	ND		92	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
2-Butanone (MEK)	ND		92	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
n-Butylbenzene	60		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1
sec-Butylbenzene	48		46	ug/Kg	☼	03/04/24 11:47	03/04/24 15:06	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 83.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Carbon disulfide	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Carbon tetrachloride	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Chlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Chloroethane	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Chloroform	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Chloromethane	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
2-Chlorotoluene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
4-Chlorotoluene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2-Dibromo-3-Chloropropane	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Dibromochloromethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2-Dibromoethane (EDB)	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Dibromomethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2-Dichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,3-Dichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,4-Dichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Dichlorodifluoromethane (Freon 12)	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1-Dichloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2-Dichloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1-Dichloroethene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
cis-1,2-Dichloroethene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
trans-1,2-Dichloroethene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2-Dichloropropane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,3-Dichloropropane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
2,2-Dichloropropane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1-Dichloropropene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
cis-1,3-Dichloropropene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
trans-1,3-Dichloropropene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Ethylbenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Hexachlorobutadiene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
2-Hexanone (MBK)	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Isopropylbenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
4-Isopropyltoluene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Methyl tert-butyl ether	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Methylene Chloride	ND		92	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Naphthalene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
N-Propylbenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Styrene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1,1,2-Tetrachloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1,2,2-Tetrachloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Tetrachloroethene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Toluene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2,3-Trichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,2,4-Trichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,3,5-Trichlorobenzene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1,1-Trichloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
1,1,2-Trichloroethane	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1
Trichloroethene	ND		46	ug/Kg	☆	03/04/24 11:47	03/04/24 15:06	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 83.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
1,2,3-Trichloropropane	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
1,2,4-Trimethylbenzene	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
1,3,5-Trimethylbenzene	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Vinyl chloride	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
m,p-Xylene	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
o-Xylene	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Tetrahydrofuran	ND		92	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Ethyl ether	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Tert-amyl methyl ether	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Ethyl tert-butyl ether	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
di-Isopropyl ether	ND		46	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
tert-Butanol	ND		920	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
1,4-Dioxane	ND		920	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
trans-1,4-Dichloro-2-butene	ND		230	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Ethanol	ND		9200	ug/Kg	✱	03/04/24 11:47	03/04/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/04/24 11:47	03/04/24 15:06	1
Toluene-d8 (Surr)	99		70 - 130			03/04/24 11:47	03/04/24 15:06	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130			03/04/24 11:47	03/04/24 15:06	1
Dibromofluoromethane (Surr)	92		70 - 130			03/04/24 11:47	03/04/24 15:06	1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Acetone	ND		44	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Acrylonitrile	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Benzene	190	E	4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Bromobenzene	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Bromochloromethane	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Bromodichloromethane	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Bromoform	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Bromomethane	ND		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
2-Butanone (MEK)	ND		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
n-Butylbenzene	ND		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
sec-Butylbenzene	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
tert-Butylbenzene	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Carbon disulfide	48		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Carbon tetrachloride	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Chlorobenzene	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Chloroethane	ND		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Chloroform	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Chloromethane	ND		8.8	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
2-Chlorotoluene	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Dibromochloromethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2-Dibromoethane (EDB)	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Dibromomethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2-Dichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,3-Dichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,4-Dichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Dichlorodifluoromethane (Freon 12)	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1-Dichloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2-Dichloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1-Dichloroethene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
cis-1,2-Dichloroethene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
trans-1,2-Dichloroethene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2-Dichloropropane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,3-Dichloropropane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
2,2-Dichloropropane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1-Dichloropropene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
cis-1,3-Dichloropropene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
trans-1,3-Dichloropropene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Ethylbenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Hexachlorobutadiene	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
2-Hexanone (MBK)	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Isopropylbenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
4-Isopropyltoluene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Methyl tert-butyl ether	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Methylene Chloride	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Naphthalene	ND	+	4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
N-Propylbenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Styrene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Tetrachloroethene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Toluene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2,3-Trichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2,4-Trichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,3,5-Trichlorobenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1,1-Trichloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,1,2-Trichloroethane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Trichloroethene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2,3-Trichloropropane	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,2,4-Trimethylbenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
1,3,5-Trimethylbenzene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Vinyl chloride	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
m,p-Xylene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
o-Xylene	ND		4.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1
Tetrahydrofuran	ND		8.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:07	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Tert-amyl methyl ether	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Ethyl tert-butyl ether	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
di-Isopropyl ether	ND		4.4	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
tert-Butanol	ND		88	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
1,4-Dioxane	ND		88	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		22	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Ethanol	ND		880	ug/Kg	✱	03/01/24 08:00	03/01/24 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/01/24 08:00	03/01/24 18:07	1
Toluene-d8 (Surr)	100		70 - 130			03/01/24 08:00	03/01/24 18:07	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130			03/01/24 08:00	03/01/24 18:07	1
Dibromofluoromethane (Surr)	103		70 - 130			03/01/24 08:00	03/01/24 18:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Acetone	ND		430	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Acrylonitrile	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Benzene	780		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Bromobenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Bromochloromethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Bromodichloromethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Bromoform	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Bromomethane	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
2-Butanone (MEK)	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
n-Butylbenzene	48		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
sec-Butylbenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
tert-Butylbenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Carbon disulfide	220		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Carbon tetrachloride	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Chlorobenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Chloroethane	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Chloroform	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Chloromethane	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
2-Chlorotoluene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
4-Chlorotoluene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Dibromochloromethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,2-Dibromoethane (EDB)	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Dibromomethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,2-Dichlorobenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,3-Dichlorobenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,4-Dichlorobenzene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
Dichlorodifluoromethane (Freon 12)	ND		86	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,1-Dichloroethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,2-Dichloroethane	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1
1,1-Dichloroethene	ND		43	ug/Kg	✱	03/04/24 11:47	03/04/24 15:31	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
trans-1,2-Dichloroethene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,2-Dichloropropane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,3-Dichloropropane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
2,2-Dichloropropane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,1-Dichloropropene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
cis-1,3-Dichloropropene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
trans-1,3-Dichloropropene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Ethylbenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Hexachlorobutadiene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
2-Hexanone (MBK)	ND		86	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Isopropylbenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
4-Isopropyltoluene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Methyl tert-butyl ether	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		86	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Methylene Chloride	ND		86	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Naphthalene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
N-Propylbenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Styrene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,1,1,2-Tetrachloroethane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,1,1,2,2-Tetrachloroethane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Tetrachloroethene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Toluene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,2,3-Trichlorobenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,2,4-Trichlorobenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,3,5-Trichlorobenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,1,1-Trichloroethane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,1,2-Trichloroethane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Trichloroethene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Trichlorofluoromethane (Freon 11)	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,2,3-Trichloropropane	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,2,4-Trimethylbenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,3,5-Trimethylbenzene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Vinyl chloride	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
m,p-Xylene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
o-Xylene	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Tetrahydrofuran	ND		86	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Ethyl ether	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Tert-amyl methyl ether	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Ethyl tert-butyl ether	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
di-Isopropyl ether	ND		43	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
tert-Butanol	ND		860	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
1,4-Dioxane	ND		860	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		220	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1
Ethanol	ND		8600	ug/Kg	☆	03/04/24 11:47	03/04/24 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/04/24 11:47	03/04/24 15:31	1
Toluene-d8 (Surr)	100		70 - 130	03/04/24 11:47	03/04/24 15:31	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	03/04/24 11:47	03/04/24 15:31	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		70 - 130	03/04/24 11:47	03/04/24 15:31	1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-18

Date Collected: 02/26/24 09:12

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Acetone	ND		42	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Acrylonitrile	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Benzene	140		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Bromobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Bromochloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Bromodichloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Bromoform	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Bromomethane	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
2-Butanone (MEK)	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
n-Butylbenzene	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
sec-Butylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
tert-Butylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Carbon disulfide	64		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Carbon tetrachloride	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Chlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Chloroethane	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Chloroform	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Chloromethane	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
2-Chlorotoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
4-Chlorotoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2-Dibromo-3-Chloropropane	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Dibromochloromethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2-Dibromoethane (EDB)	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Dibromomethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,3-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,4-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Dichlorodifluoromethane (Freon 12)	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1-Dichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2-Dichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,3-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
2,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Ethylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-18

Date Collected: 02/26/24 09:12

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
2-Hexanone (MBK)	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Isopropylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
4-Isopropyltoluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Methyl tert-butyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Methylene Chloride	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Naphthalene	ND	*+	4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
N-Propylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Styrene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Tetrachloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Toluene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,3,5-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1,1-Trichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,1,2-Trichloroethane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Trichloroethene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Trichlorofluoromethane (Freon 11)	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2,3-Trichloropropane	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Vinyl chloride	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
m,p-Xylene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
o-Xylene	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Tetrahydrofuran	ND		8.4	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Ethyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Tert-amyl methyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Ethyl tert-butyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
di-Isopropyl ether	ND		4.2	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
tert-Butanol	ND		84	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
1,4-Dioxane	ND		84	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1
Ethanol	ND		840	ug/Kg	☆	03/01/24 08:00	03/01/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/01/24 08:00	03/01/24 18:32	1
Toluene-d8 (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 18:32	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 18:32	1
Dibromofluoromethane (Surr)	101		70 - 130	03/01/24 08:00	03/01/24 18:32	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-19

Date Collected: 02/26/24 09:22

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Acetone	ND		39	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Acrylonitrile	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Benzene	67		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Bromobenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Bromochloromethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Bromodichloromethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Bromoform	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Bromomethane	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
2-Butanone (MEK)	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
n-Butylbenzene	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
sec-Butylbenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
tert-Butylbenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Carbon disulfide	35		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Carbon tetrachloride	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Chlorobenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Chloroethane	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Chloroform	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Chloromethane	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
2-Chlorotoluene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
4-Chlorotoluene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,2-Dibromo-3-Chloropropane	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Dibromochloromethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,2-Dibromoethane (EDB)	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Dibromomethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,2-Dichlorobenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,3-Dichlorobenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,4-Dichlorobenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Dichlorodifluoromethane (Freon 12)	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,1-Dichloroethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,2-Dichloroethane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,1-Dichloroethene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,2-Dichloropropane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,3-Dichloropropane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
2,2-Dichloropropane	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
1,1-Dichloropropene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Ethylbenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Hexachlorobutadiene	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
2-Hexanone (MBK)	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Isopropylbenzene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
4-Isopropyltoluene	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Methyl tert-butyl ether	ND		3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Methylene Chloride	ND		7.8	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1
Naphthalene	ND	+	3.9	ug/Kg	☆	03/01/24 08:00	03/01/24 18:57	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-19

Date Collected: 02/26/24 09:22

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Styrene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Tetrachloroethene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Toluene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,3,5-Trichlorobenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,1,1-Trichloroethane	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,1,2-Trichloroethane	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Trichloroethene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Trichlorofluoromethane (Freon 11)	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,2,3-Trichloropropane	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Vinyl chloride	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
m,p-Xylene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
o-Xylene	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Tetrahydrofuran	ND		7.8	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Ethyl ether	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Tert-amyl methyl ether	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Ethyl tert-butyl ether	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
di-Isopropyl ether	ND		3.9	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
tert-Butanol	ND		78	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
1,4-Dioxane	ND		78	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Ethanol	ND		780	ug/Kg	☼	03/01/24 08:00	03/01/24 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/01/24 08:00	03/01/24 18:57	1
Toluene-d8 (Surr)	98		70 - 130			03/01/24 08:00	03/01/24 18:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130			03/01/24 08:00	03/01/24 18:57	1
Dibromofluoromethane (Surr)	101		70 - 130			03/01/24 08:00	03/01/24 18:57	1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-20

Date Collected: 02/26/24 09:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Acetone	ND		46	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Acrylonitrile	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Benzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Bromobenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Bromochloromethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Bromodichloromethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Bromoform	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-20

Date Collected: 02/26/24 09:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
2-Butanone (MEK)	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
n-Butylbenzene	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
sec-Butylbenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
tert-Butylbenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Carbon disulfide	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Carbon tetrachloride	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Chlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Chloroethane	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Chloroform	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Chloromethane	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
2-Chlorotoluene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
4-Chlorotoluene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2-Dibromo-3-Chloropropane	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Dibromochloromethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2-Dibromoethane (EDB)	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Dibromomethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,3-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,4-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Dichlorodifluoromethane (Freon 12)	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,1-Dichloroethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2-Dichloroethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,1-Dichloroethene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
cis-1,2-Dichloroethene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
trans-1,2-Dichloroethene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2-Dichloropropane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,3-Dichloropropane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
2,2-Dichloropropane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,1-Dichloropropene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
cis-1,3-Dichloropropene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
trans-1,3-Dichloropropene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Ethylbenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Hexachlorobutadiene	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
2-Hexanone (MBK)	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Isopropylbenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
4-Isopropyltoluene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Methyl tert-butyl ether	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Methylene Chloride	ND		9.2	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Naphthalene	ND	+	4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
N-Propylbenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Styrene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Tetrachloroethene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
Toluene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	☆	03/01/24 08:00	03/01/24 19:22	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-20

Date Collected: 02/26/24 09:32

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,1,1-Trichloroethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,1,2-Trichloroethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Trichloroethene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Trichlorofluoromethane (Freon 11)	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,2,3-Trichloropropane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Vinyl chloride	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
m,p-Xylene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
o-Xylene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Tetrahydrofuran	ND		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Ethyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Tert-amyl methyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Ethyl tert-butyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
di-Isopropyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
tert-Butanol	ND		92	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
1,4-Dioxane	ND		92	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
trans-1,4-Dichloro-2-butene	ND		23	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Ethanol	ND		920	ug/Kg	☼	03/01/24 08:00	03/01/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/01/24 08:00	03/01/24 19:22	1
Toluene-d8 (Surr)	98		70 - 130			03/01/24 08:00	03/01/24 19:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130			03/01/24 08:00	03/01/24 19:22	1
Dibromofluoromethane (Surr)	99		70 - 130			03/01/24 08:00	03/01/24 19:22	1

Client Sample ID: EA6/1R Day 15b, 0.5x

Lab Sample ID: 620-17101-21

Date Collected: 02/26/24 08:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Acetone	ND		46	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Acrylonitrile	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Benzene	4.9		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Bromobenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Bromochloromethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Bromodichloromethane	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Bromoform	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Bromomethane	ND		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
2-Butanone (MEK)	ND		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
n-Butylbenzene	ND		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
sec-Butylbenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
tert-Butylbenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Carbon disulfide	42		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Carbon tetrachloride	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Chlorobenzene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 0.5x

Lab Sample ID: 620-17101-21

Date Collected: 02/26/24 08:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Chloroform	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Chloromethane	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
2-Chlorotoluene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
4-Chlorotoluene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2-Dibromo-3-Chloropropane	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Dibromochloromethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2-Dibromoethane (EDB)	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Dibromomethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2-Dichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,3-Dichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,4-Dichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Dichlorodifluoromethane (Freon 12)	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1-Dichloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2-Dichloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1-Dichloroethene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
cis-1,2-Dichloroethene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
trans-1,2-Dichloroethene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2-Dichloropropane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,3-Dichloropropane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
2,2-Dichloropropane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1-Dichloropropene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
cis-1,3-Dichloropropene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
trans-1,3-Dichloropropene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Ethylbenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Hexachlorobutadiene	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
2-Hexanone (MBK)	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Isopropylbenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
4-Isopropyltoluene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Methyl tert-butyl ether	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Methylene Chloride	ND		9.2	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Naphthalene	ND	+	4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
N-Propylbenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Styrene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Tetrachloroethene	8.0		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Toluene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,3,5-Trichlorobenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1,1-Trichloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,1,2-Trichloroethane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Trichloroethene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
Trichlorofluoromethane (Freon 11)	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2,3-Trichloropropane	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	✱	03/01/24 08:00	03/01/24 19:47	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 0.5x

Lab Sample ID: 620-17101-21

Date Collected: 02/26/24 08:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
m,p-Xylene	4.6		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
o-Xylene	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Tetrahydrofuran	ND		9.2	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Ethyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Tert-amyl methyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Ethyl tert-butyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
di-Isopropyl ether	ND		4.6	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
tert-Butanol	ND		92	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
1,4-Dioxane	ND		92	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
trans-1,4-Dichloro-2-butene	ND		23	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1
Ethanol	ND		920	ug/Kg	☼	03/01/24 08:00	03/01/24 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 19:47	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 19:47	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 19:47	1
Dibromofluoromethane (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 19:47	1

Client Sample ID: EA6/1R Day 15b, 1x

Lab Sample ID: 620-17101-22

Date Collected: 02/26/24 08:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Acetone	ND		41	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Acrylonitrile	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Benzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Bromobenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Bromochloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Bromodichloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Bromoform	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Bromomethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
2-Butanone (MEK)	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
n-Butylbenzene	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
sec-Butylbenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
tert-Butylbenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Carbon disulfide	26		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Carbon tetrachloride	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Chlorobenzene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Chloroethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Chloroform	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Chloromethane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
2-Chlorotoluene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
4-Chlorotoluene	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
1,2-Dibromo-3-Chloropropane	ND		8.2	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
Dibromochloromethane	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	☼	03/01/24 08:00	03/01/24 20:12	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 1x

Lab Sample ID: 620-17101-22

Date Collected: 02/26/24 08:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 87.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Dichlorodifluoromethane (Freon 12)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,3-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
2,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Ethylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Hexachlorobutadiene	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
2-Hexanone (MBK)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Isopropylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
4-Isopropyltoluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
4-Methyl-2-pentanone (MIBK)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Methylene Chloride	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Naphthalene	ND	+	4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
N-Propylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Styrene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Tetrachloroethene	5.2		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Toluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Trichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Vinyl chloride	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
m,p-Xylene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
o-Xylene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Tetrahydrofuran	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Ethyl ether	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1
di-Isopropyl ether	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 20:12	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 1x

Lab Sample ID: 620-17101-22

Date Collected: 02/26/24 08:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 87.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 20:12	1
1,4-Dioxane	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 20:12	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	✱	03/01/24 08:00	03/01/24 20:12	1
Ethanol	ND		820	ug/Kg	✱	03/01/24 08:00	03/01/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/01/24 08:00	03/01/24 20:12	1
Toluene-d8 (Surr)	100		70 - 130			03/01/24 08:00	03/01/24 20:12	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130			03/01/24 08:00	03/01/24 20:12	1
Dibromofluoromethane (Surr)	103		70 - 130			03/01/24 08:00	03/01/24 20:12	1

Client Sample ID: EA6/1R Day 15b, 2x

Lab Sample ID: 620-17101-23

Date Collected: 02/26/24 08:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Acetone	ND		33	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Acrylonitrile	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Benzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Bromobenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Bromochloromethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Bromodichloromethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Bromoform	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Bromomethane	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
2-Butanone (MEK)	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
n-Butylbenzene	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
sec-Butylbenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
tert-Butylbenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Carbon disulfide	20		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Carbon tetrachloride	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Chlorobenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Chloroethane	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Chloroform	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Chloromethane	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
2-Chlorotoluene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
4-Chlorotoluene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,2-Dibromo-3-Chloropropane	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Dibromochloromethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,2-Dibromoethane (EDB)	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Dibromomethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,2-Dichlorobenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,3-Dichlorobenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,4-Dichlorobenzene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
Dichlorodifluoromethane (Freon 12)	ND		6.6	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,1-Dichloroethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,2-Dichloroethane	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1
1,1-Dichloroethene	ND		3.3	ug/Kg	✱	03/01/24 08:00	03/01/24 20:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 2x

Lab Sample ID: 620-17101-23

Date Collected: 02/26/24 08:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
trans-1,2-Dichloroethene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,2-Dichloropropane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,3-Dichloropropane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
2,2-Dichloropropane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,1-Dichloropropene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
cis-1,3-Dichloropropene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
trans-1,3-Dichloropropene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Ethylbenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Hexachlorobutadiene	ND		6.6	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
2-Hexanone (MBK)	ND		6.6	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Isopropylbenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
4-Isopropyltoluene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Methyl tert-butyl ether	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		6.6	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Methylene Chloride	ND		6.6	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Naphthalene	ND	*+	3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
N-Propylbenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Styrene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,1,1,2-Tetrachloroethane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,1,2,2-Tetrachloroethane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Tetrachloroethene	4.6		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Toluene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,2,3-Trichlorobenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,2,4-Trichlorobenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,3,5-Trichlorobenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,1,1-Trichloroethane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,1,2-Trichloroethane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Trichloroethene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Trichlorofluoromethane (Freon 11)	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,2,3-Trichloropropane	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,2,4-Trimethylbenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,3,5-Trimethylbenzene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Vinyl chloride	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
m,p-Xylene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
o-Xylene	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Tetrahydrofuran	ND		6.6	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Ethyl ether	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Tert-amyl methyl ether	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Ethyl tert-butyl ether	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
di-Isopropyl ether	ND		3.3	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
tert-Butanol	ND		66	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
1,4-Dioxane	ND		66	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
trans-1,4-Dichloro-2-butene	ND		17	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1
Ethanol	ND		660	ug/Kg	☆	03/01/24 08:00	03/01/24 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 20:37	1
Toluene-d8 (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 20:37	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/01/24 08:00	03/01/24 20:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 2x

Lab Sample ID: 620-17101-23

Date Collected: 02/26/24 08:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 20:37	1

Client Sample ID: EA6/1R Day 15b, 3x

Lab Sample ID: 620-17101-24

Date Collected: 02/26/24 08:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Acetone	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Acrylonitrile	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Benzene	4.2		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Bromobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Bromochloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Bromodichloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Bromoform	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Bromomethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
2-Butanone (MEK)	8.8		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
n-Butylbenzene	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
sec-Butylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
tert-Butylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Carbon disulfide	22		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Carbon tetrachloride	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Chlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Chloroethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Chloroform	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Chloromethane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
2-Chlorotoluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
4-Chlorotoluene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,2-Dibromo-3-Chloropropane	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Dibromochloromethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Dibromomethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Dichlorodifluoromethane (Freon 12)	ND		8.2	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,1-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,2-Dichloroethane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,1-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,3-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
2,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
1,1-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1
Ethylbenzene	ND		4.1	ug/Kg	☆	03/01/24 08:00	03/01/24 21:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 3x

Lab Sample ID: 620-17101-24

Date Collected: 02/26/24 08:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
2-Hexanone (MBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Isopropylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
4-Isopropyltoluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
4-Methyl-2-pentanone (MIBK)	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Methylene Chloride	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Naphthalene	ND	*+	4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
N-Propylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Styrene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Tetrachloroethene	9.9		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Toluene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Trichloroethene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Vinyl chloride	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
m,p-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
o-Xylene	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Tetrahydrofuran	ND		8.2	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Ethyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
di-Isopropyl ether	ND		4.1	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
tert-Butanol	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
1,4-Dioxane	ND		82	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1
Ethanol	ND		820	ug/Kg	✱	03/01/24 08:00	03/01/24 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 21:02	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 21:02	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/01/24 08:00	03/01/24 21:02	1
Dibromofluoromethane (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 21:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, ctrl

Lab Sample ID: 620-17101-25

Date Collected: 02/26/24 08:44

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Acetone	ND		40	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Acrylonitrile	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Benzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Bromobenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Bromochloromethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Bromodichloromethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Bromoform	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Bromomethane	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
2-Butanone (MEK)	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
n-Butylbenzene	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
sec-Butylbenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
tert-Butylbenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Carbon disulfide	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Carbon tetrachloride	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Chlorobenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Chloroethane	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Chloroform	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Chloromethane	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
2-Chlorotoluene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
4-Chlorotoluene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,2-Dibromo-3-Chloropropane	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Dibromochloromethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,2-Dibromoethane (EDB)	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Dibromomethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,2-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,3-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,4-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Dichlorodifluoromethane (Freon 12)	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,1-Dichloroethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,2-Dichloroethane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,1-Dichloroethene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,2-Dichloropropane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,3-Dichloropropane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
2,2-Dichloropropane	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
1,1-Dichloropropene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Ethylbenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Hexachlorobutadiene	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
2-Hexanone (MBK)	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Isopropylbenzene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
4-Isopropyltoluene	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Methyl tert-butyl ether	ND		4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Methylene Chloride	ND		8.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1
Naphthalene	ND	+	4.0	ug/Kg	☆	03/01/24 08:00	03/01/24 21:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, ctrl

Lab Sample ID: 620-17101-25

Date Collected: 02/26/24 08:44

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 80.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Styrene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Tetrachloroethene	5.5		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Toluene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,3,5-Trichlorobenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,1,1-Trichloroethane	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,1,2-Trichloroethane	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Trichloroethene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Trichlorofluoromethane (Freon 11)	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,2,3-Trichloropropane	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Vinyl chloride	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
m,p-Xylene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
o-Xylene	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Tetrahydrofuran	ND		8.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Ethyl ether	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Tert-amyl methyl ether	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Ethyl tert-butyl ether	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
di-Isopropyl ether	ND		4.0	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
tert-Butanol	ND		80	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
1,4-Dioxane	ND		80	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Ethanol	ND		800	ug/Kg	☼	03/01/24 08:00	03/01/24 21:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			03/01/24 08:00	03/01/24 21:27	1
Toluene-d8 (Surr)	98		70 - 130			03/01/24 08:00	03/01/24 21:27	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130			03/01/24 08:00	03/01/24 21:27	1
Dibromofluoromethane (Surr)	97		70 - 130			03/01/24 08:00	03/01/24 21:27	1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Date Collected: 02/26/24 08:54

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Acetone	ND		47	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Acrylonitrile	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Benzene	290	E	4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Bromobenzene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Bromochloromethane	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Bromodichloromethane	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Bromoform	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Date Collected: 02/26/24 08:54

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 82.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
2-Butanone (MEK)	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
n-Butylbenzene	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
sec-Butylbenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
tert-Butylbenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Carbon disulfide	68		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Carbon tetrachloride	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Chlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Chloroethane	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Chloroform	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Chloromethane	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
2-Chlorotoluene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
4-Chlorotoluene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2-Dibromo-3-Chloropropane	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Dibromochloromethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2-Dibromoethane (EDB)	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Dibromomethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2-Dichlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,3-Dichlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,4-Dichlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Dichlorodifluoromethane (Freon 12)	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,1-Dichloroethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2-Dichloroethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,1-Dichloroethene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
cis-1,2-Dichloroethene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
trans-1,2-Dichloroethene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2-Dichloropropane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,3-Dichloropropane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
2,2-Dichloropropane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,1-Dichloropropene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
cis-1,3-Dichloropropene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
trans-1,3-Dichloropropene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Ethylbenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Hexachlorobutadiene	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
2-Hexanone (MBK)	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Isopropylbenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
4-Isopropyltoluene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Methyl tert-butyl ether	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Methylene Chloride	ND		9.5	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Naphthalene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
N-Propylbenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Styrene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,1,1,2-Tetrachloroethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,1,2,2-Tetrachloroethane	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Tetrachloroethene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
Toluene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2,3-Trichlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1
1,2,4-Trichlorobenzene	ND		4.7	ug/Kg	☆	03/04/24 12:20	03/04/24 13:20	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Date Collected: 02/26/24 08:54

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 82.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,1,1-Trichloroethane	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,1,2-Trichloroethane	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Trichloroethene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Trichlorofluoromethane (Freon 11)	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,2,3-Trichloropropane	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,2,4-Trimethylbenzene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,3,5-Trimethylbenzene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Vinyl chloride	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
m,p-Xylene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
o-Xylene	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Tetrahydrofuran	ND		9.5	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Ethyl ether	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Tert-amyl methyl ether	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Ethyl tert-butyl ether	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
di-Isopropyl ether	ND		4.7	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
tert-Butanol	ND		95	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
1,4-Dioxane	ND		95	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
trans-1,4-Dichloro-2-butene	ND		24	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1
Ethanol	ND		950	ug/Kg	☼	03/04/24 12:20	03/04/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/04/24 12:20	03/04/24 13:20	1
Toluene-d8 (Surr)	99		70 - 130	03/04/24 12:20	03/04/24 13:20	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 13:20	1
Dibromofluoromethane (Surr)	105		70 - 130	03/04/24 12:20	03/04/24 13:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Acetone	ND		470	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Acrylonitrile	ND	*+	47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Benzene	890		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Bromobenzene	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Bromochloromethane	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Bromodichloromethane	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Bromoform	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Bromomethane	ND		94	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
2-Butanone (MEK)	ND		94	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
n-Butylbenzene	55		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
sec-Butylbenzene	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
tert-Butylbenzene	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Carbon disulfide	150		94	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Carbon tetrachloride	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Chlorobenzene	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Chloroethane	ND		94	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Chloroform	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
Chloromethane	ND	*+	94	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1
2-Chlorotoluene	ND		47	ug/Kg	☼	03/06/24 09:00	03/06/24 12:20	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Date Collected: 02/26/24 08:54

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 82.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2-Dibromo-3-Chloropropane	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Dibromochloromethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2-Dibromoethane (EDB)	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Dibromomethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2-Dichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,3-Dichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,4-Dichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Dichlorodifluoromethane (Freon 12)	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1-Dichloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2-Dichloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1-Dichloroethene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
cis-1,2-Dichloroethene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
trans-1,2-Dichloroethene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2-Dichloropropane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,3-Dichloropropane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
2,2-Dichloropropane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1-Dichloropropene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
cis-1,3-Dichloropropene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
trans-1,3-Dichloropropene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Ethylbenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Hexachlorobutadiene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
2-Hexanone (MBK)	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Isopropylbenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
4-Isopropyltoluene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Methyl tert-butyl ether	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
4-Methyl-2-pentanone (MIBK)	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Methylene Chloride	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Naphthalene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
N-Propylbenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Styrene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1,1,2-Tetrachloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1,2,2-Tetrachloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Tetrachloroethene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Toluene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2,3-Trichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2,4-Trichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,3,5-Trichlorobenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1,1-Trichloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,1,2-Trichloroethane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Trichloroethene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Trichlorofluoromethane (Freon 11)	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2,3-Trichloropropane	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,2,4-Trimethylbenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
1,3,5-Trimethylbenzene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Vinyl chloride	ND	+	47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
m,p-Xylene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
o-Xylene	ND		47	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1
Tetrahydrofuran	ND		94	ug/Kg	☆	03/06/24 09:00	03/06/24 12:20	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-26

Date Collected: 02/26/24 08:54

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 82.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		47	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
Tert-amyl methyl ether	ND		47	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
Ethyl tert-butyl ether	ND		47	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
di-Isopropyl ether	ND		47	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
tert-Butanol	ND		940	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
1,4-Dioxane	ND		940	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
trans-1,4-Dichloro-2-butene	ND		230	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
Ethanol	ND	*+	9400	ug/Kg	✱	03/06/24 09:00	03/06/24 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/06/24 09:00	03/06/24 12:20	1
Toluene-d8 (Surr)	105		70 - 130			03/06/24 09:00	03/06/24 12:20	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130			03/06/24 09:00	03/06/24 12:20	1
Dibromofluoromethane (Surr)	92		70 - 130			03/06/24 09:00	03/06/24 12:20	1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-27

Date Collected: 02/26/24 09:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Acetone	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Acrylonitrile	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Benzene	300	E	4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Bromobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Bromochloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Bromodichloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Bromoform	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Bromomethane	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
2-Butanone (MEK)	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
n-Butylbenzene	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
sec-Butylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
tert-Butylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Carbon disulfide	90		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Carbon tetrachloride	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Chlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Chloroethane	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Chloroform	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Chloromethane	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
2-Chlorotoluene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
4-Chlorotoluene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
1,2-Dibromo-3-Chloropropane	ND		8.2	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Dibromochloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
Dibromomethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 13:45	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-27

Date Collected: 02/26/24 09:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1-Dichloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2-Dichloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1-Dichloroethene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,3-Dichloropropane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
2,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1-Dichloropropene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Ethylbenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Hexachlorobutadiene	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
2-Hexanone (MBK)	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Isopropylbenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
4-Isopropyltoluene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Methylene Chloride	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Naphthalene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
N-Propylbenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Styrene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Tetrachloroethene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Toluene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Trichloroethene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Vinyl chloride	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
m,p-Xylene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
o-Xylene	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Tetrahydrofuran	ND		8.2	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Ethyl ether	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
di-Isopropyl ether	ND		4.1	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
tert-Butanol	ND		82	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
1,4-Dioxane	ND		82	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1
Ethanol	ND		820	ug/Kg	☆	03/04/24 12:20	03/04/24 13:45	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-27

Date Collected: 02/26/24 09:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/04/24 12:20	03/04/24 13:45	1
Toluene-d8 (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 13:45	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	03/04/24 12:20	03/04/24 13:45	1
Dibromofluoromethane (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 13:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Acetone	ND		440	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Acrylonitrile	ND	*+	44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Benzene	760		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Bromobenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Bromochloromethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Bromodichloromethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Bromoform	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Bromomethane	ND		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
2-Butanone (MEK)	ND		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
n-Butylbenzene	50		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
sec-Butylbenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
tert-Butylbenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Carbon disulfide	280		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Carbon tetrachloride	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Chlorobenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Chloroethane	ND		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Chloroform	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Chloromethane	ND	*+	89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
2-Chlorotoluene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
4-Chlorotoluene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,2-Dibromo-3-Chloropropane	ND		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Dibromochloromethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,2-Dibromoethane (EDB)	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Dibromomethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,2-Dichlorobenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,3-Dichlorobenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,4-Dichlorobenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Dichlorodifluoromethane (Freon 12)	ND		89	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,1-Dichloroethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,2-Dichloroethane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,1-Dichloroethene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
cis-1,2-Dichloroethene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
trans-1,2-Dichloroethene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,2-Dichloropropane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,3-Dichloropropane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
2,2-Dichloropropane	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
1,1-Dichloropropene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
cis-1,3-Dichloropropene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
trans-1,3-Dichloropropene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Ethylbenzene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1
Hexachlorobutadiene	ND		44	ug/Kg	☆	03/06/24 09:00	03/06/24 12:46	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-27

Date Collected: 02/26/24 09:04

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	ND		89	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Isopropylbenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
4-Isopropyltoluene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Methyl tert-butyl ether	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
4-Methyl-2-pentanone (MIBK)	ND		89	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Methylene Chloride	ND		89	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Naphthalene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
N-Propylbenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Styrene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,1,1,2-Tetrachloroethane	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,1,2,2-Tetrachloroethane	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Tetrachloroethene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Toluene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,2,3-Trichlorobenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,2,4-Trichlorobenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,3,5-Trichlorobenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,1,1-Trichloroethane	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,1,2-Trichloroethane	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Trichloroethene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Trichlorofluoromethane (Freon 11)	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,2,3-Trichloropropane	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,2,4-Trimethylbenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,3,5-Trimethylbenzene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Vinyl chloride	ND	*+	44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
m,p-Xylene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
o-Xylene	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Tetrahydrofuran	ND		89	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Ethyl ether	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Tert-amyl methyl ether	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Ethyl tert-butyl ether	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
di-Isopropyl ether	ND		44	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
tert-Butanol	ND		890	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
1,4-Dioxane	ND		890	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
trans-1,4-Dichloro-2-butene	ND		220	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Ethanol	ND	*+	8900	ug/Kg	✱	03/06/24 09:00	03/06/24 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/06/24 09:00	03/06/24 12:46	1
Toluene-d8 (Surr)	102		70 - 130			03/06/24 09:00	03/06/24 12:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130			03/06/24 09:00	03/06/24 12:46	1
Dibromofluoromethane (Surr)	92		70 - 130			03/06/24 09:00	03/06/24 12:46	1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-28

Date Collected: 02/26/24 09:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-28

Date Collected: 02/26/24 09:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Acrylonitrile	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Benzene	150		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Bromobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Bromochloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Bromodichloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Bromoform	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Bromomethane	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
2-Butanone (MEK)	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
n-Butylbenzene	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
sec-Butylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
tert-Butylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Carbon disulfide	77		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Carbon tetrachloride	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Chlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Chloroethane	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Chloroform	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Chloromethane	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
2-Chlorotoluene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
4-Chlorotoluene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,2-Dibromo-3-Chloropropane	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Dibromochloromethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Dibromomethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Dichlorodifluoromethane (Freon 12)	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,1-Dichloroethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,2-Dichloroethane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,1-Dichloroethene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,2-Dichloropropane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,3-Dichloropropane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
2,2-Dichloropropane	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
1,1-Dichloropropene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Ethylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Hexachlorobutadiene	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
2-Hexanone (MBK)	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Isopropylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
4-Isopropyltoluene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Methylene Chloride	ND		8.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
Naphthalene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1
N-Propylbenzene	ND		4.1	ug/Kg	✱	03/04/24 12:20	03/04/24 14:10	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-28

Date Collected: 02/26/24 09:14

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Tetrachloroethene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Toluene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Trichloroethene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Vinyl chloride	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
m,p-Xylene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
o-Xylene	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Tetrahydrofuran	ND		8.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Ethyl ether	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Tert-amyl methyl ether	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
di-Isopropyl ether	ND		4.1	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
tert-Butanol	ND		81	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
1,4-Dioxane	ND		81	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1
Ethanol	ND		810	ug/Kg	☼	03/04/24 12:20	03/04/24 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/04/24 12:20	03/04/24 14:10	1
Toluene-d8 (Surr)	101		70 - 130	03/04/24 12:20	03/04/24 14:10	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 14:10	1
Dibromofluoromethane (Surr)	104		70 - 130	03/04/24 12:20	03/04/24 14:10	1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-29

Date Collected: 02/26/24 09:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Acetone	ND		40	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Acrylonitrile	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Benzene	92		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Bromobenzene	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Bromochloromethane	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Bromodichloromethane	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Bromoform	ND		4.0	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1
Bromomethane	ND		7.9	ug/Kg	☼	03/04/24 12:20	03/04/24 14:35	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-29

Date Collected: 02/26/24 09:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
n-Butylbenzene	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
sec-Butylbenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
tert-Butylbenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Carbon disulfide	48		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Carbon tetrachloride	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Chlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Chloroethane	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Chloroform	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Chloromethane	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
2-Chlorotoluene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
4-Chlorotoluene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2-Dibromo-3-Chloropropane	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Dibromochloromethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2-Dibromoethane (EDB)	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Dibromomethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,3-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,4-Dichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Dichlorodifluoromethane (Freon 12)	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,1-Dichloroethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2-Dichloroethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,1-Dichloroethene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2-Dichloropropane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,3-Dichloropropane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
2,2-Dichloropropane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,1-Dichloropropene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Ethylbenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Hexachlorobutadiene	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
2-Hexanone (MBK)	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Isopropylbenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
4-Isopropyltoluene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Methyl tert-butyl ether	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Methylene Chloride	ND		7.9	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Naphthalene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
N-Propylbenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Styrene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Tetrachloroethene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
Toluene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1
1,3,5-Trichlorobenzene	ND		4.0	ug/Kg	☆	03/04/24 12:20	03/04/24 14:35	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-29

Date Collected: 02/26/24 09:24

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
1,1,2-Trichloroethane	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Trichloroethene	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Trichlorofluoromethane (Freon 11)	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
1,2,3-Trichloropropane	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Vinyl chloride	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
m,p-Xylene	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
o-Xylene	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Tetrahydrofuran	ND		7.9	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Ethyl ether	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Tert-amyl methyl ether	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Ethyl tert-butyl ether	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
di-Isopropyl ether	ND		4.0	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
tert-Butanol	ND		79	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
1,4-Dioxane	ND		79	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1
Ethanol	ND		790	ug/Kg	✱	03/04/24 12:20	03/04/24 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 14:35	1
Toluene-d8 (Surr)	100		70 - 130	03/04/24 12:20	03/04/24 14:35	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 14:35	1
Dibromofluoromethane (Surr)	102		70 - 130	03/04/24 12:20	03/04/24 14:35	1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-30

Date Collected: 02/26/24 09:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Acetone	ND		46	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Acrylonitrile	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Benzene	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Bromobenzene	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Bromochloromethane	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Bromodichloromethane	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Bromoform	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Bromomethane	ND		9.3	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
2-Butanone (MEK)	ND		9.3	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
n-Butylbenzene	ND		9.3	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
sec-Butylbenzene	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
tert-Butylbenzene	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Carbon disulfide	ND		9.3	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Carbon tetrachloride	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Chlorobenzene	ND		4.6	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1
Chloroethane	ND		9.3	ug/Kg	✱	03/04/24 12:20	03/04/24 15:00	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-30

Date Collected: 02/26/24 09:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Chloromethane	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
2-Chlorotoluene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
4-Chlorotoluene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2-Dibromo-3-Chloropropane	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Dibromochloromethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2-Dibromoethane (EDB)	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Dibromomethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,3-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,4-Dichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Dichlorodifluoromethane (Freon 12)	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1-Dichloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2-Dichloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1-Dichloroethene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
cis-1,2-Dichloroethene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
trans-1,2-Dichloroethene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2-Dichloropropane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,3-Dichloropropane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
2,2-Dichloropropane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1-Dichloropropene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
cis-1,3-Dichloropropene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
trans-1,3-Dichloropropene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Ethylbenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Hexachlorobutadiene	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
2-Hexanone (MBK)	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Isopropylbenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
4-Isopropyltoluene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Methyl tert-butyl ether	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Methylene Chloride	ND		9.3	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Naphthalene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
N-Propylbenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Styrene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Tetrachloroethene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Toluene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,3,5-Trichlorobenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1,1-Trichloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,1,2-Trichloroethane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Trichloroethene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Trichlorofluoromethane (Freon 11)	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2,3-Trichloropropane	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1
Vinyl chloride	ND		4.6	ug/Kg	☆	03/04/24 12:20	03/04/24 15:00	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-30

Date Collected: 02/26/24 09:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
o-Xylene	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
Tetrahydrofuran	ND		9.3	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
Ethyl ether	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
Tert-amyl methyl ether	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
Ethyl tert-butyl ether	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
di-Isopropyl ether	ND		4.6	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
tert-Butanol	ND		93	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
1,4-Dioxane	ND		93	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
trans-1,4-Dichloro-2-butene	ND		23	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1
Ethanol	ND		930	ug/Kg	☼	03/04/24 12:20	03/04/24 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/04/24 12:20	03/04/24 15:00	1
Toluene-d8 (Surr)	100		70 - 130	03/04/24 12:20	03/04/24 15:00	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	03/04/24 12:20	03/04/24 15:00	1
Dibromofluoromethane (Surr)	101		70 - 130	03/04/24 12:20	03/04/24 15:00	1

Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Matrix: Solid

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)
620-17101-11	EA6/1R Day 15, 0.5x	100	99	105	100
620-17101-12	EA6/1R Day 15, 1x	98	99	99	100
620-17101-13	EA6/1R Day 15, 2x	101	99	106	101
620-17101-14	EA6/1R Day 15, 3x	99	98	102	100
620-17101-15	EA6/1R Day 15, ctrl	96	98	97	98
620-17101-16	4R Day 15, 0.5x	102	99	98	102
620-17101-16 - ME	4R Day 15, 0.5x	101	99	94	92
620-17101-17	4R Day 15, 1x	102	100	104	103
620-17101-17 - ME	4R Day 15, 1x	99	100	93	90
620-17101-18	4R Day 15, 2x	101	100	100	101
620-17101-19	4R Day 15, 3x	102	98	103	101
620-17101-20	4R Day 15, ctrl	97	98	97	99
620-17101-21	EA6/1R Day 15b, 0.5x	99	99	99	99
620-17101-22	EA6/1R Day 15b, 1x	101	100	113	103
620-17101-23	EA6/1R Day 15b, 2x	99	98	101	100
620-17101-24	EA6/1R Day 15b, 3x	99	99	101	98
620-17101-25	EA6/1R Day 15b, ctrl	96	98	98	97
620-17101-26	4R Day 15, 0.5x	100	99	102	105
620-17101-26 - ME	4R Day 15, 0.5x	102	105	109	92
620-17101-27	4R Day 15, 1x	101	102	100	102
620-17101-27 - ME	4R Day 15, 1x	100	102	104	92
620-17101-28	4R Day 15, 2x	103	101	102	104
620-17101-29	4R Day 15, 3x	102	100	102	102
620-17101-30	4R Day 15, ctrl	98	100	99	101
LCS 620-32343/1-A	Lab Control Sample	101	100	97	99
LCS 620-32387/1-A	Lab Control Sample	105	103	105	102
LCS 620-32389/1-A	Lab Control Sample	101	100	97	100
LCS 620-32470/1-A	Lab Control Sample	104	103	104	96
LCSD 620-32343/2-A	Lab Control Sample Dup	102	100	98	99
LCSD 620-32387/2-A	Lab Control Sample Dup	105	99	101	100
LCSD 620-32389/2-A	Lab Control Sample Dup	100	101	98	100
LCSD 620-32470/2-A	Lab Control Sample Dup	104	103	104	97
MB 620-32343/3-A	Method Blank	100	99	98	98
MB 620-32387/3-A	Method Blank	99	100	102	98
MB 620-32389/3-A	Method Blank	100	98	98	98
MB 620-32470/3-A	Method Blank	101	101	104	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - 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)
620-17101-1	EA6/1R Day 15, 0.5x	106	97	91	92

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Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

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)
620-17101-2	EA6/1R Day 15, 1x	102	99	87	91
620-17101-2 - DL	EA6/1R Day 15, 1x	108	100	104	100
620-17101-3	EA6/1R Day 15, 2x	106	99	100	97
620-17101-4	EA6/1R Day 15, 3x	103	99	87	90
620-17101-5	EA6/1R Day 15, ctrl	96	97	83	89
620-17101-6 - DL	4R Day 15, 0.5x	107	98	94	94
620-17101-6	4R Day 15, 0.5x	107	100	98	92
620-17101-7 - DL	4R Day 15, 1x	106	98	94	93
620-17101-7	4R Day 15, 1x	109	100	100	93
620-17101-8	4R Day 15, 2x	104	99	94	93
620-17101-8 - DL	4R Day 15, 2x	105	99	105	97
620-17101-9	4R Day 15, 3x	108	99	94	94
620-17101-10	4R Day 15,ctrl	97	99	85	90
LCS 620-32402/4	Lab Control Sample	94	101	78	86
LCS 620-32421/4	Lab Control Sample	106	102	99	100
LCSD 620-32402/5	Lab Control Sample Dup	95	100	78	86
LCSD 620-32421/5	Lab Control Sample Dup	105	101	98	99
MB 620-32402/7	Method Blank	94	97	79	85
MB 620-32421/7	Method Blank	102	99	98	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32343/3-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32343

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Acetone	ND		50	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Acrylonitrile	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Benzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Bromobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Bromochloromethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Bromodichloromethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Bromoform	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Bromomethane	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
2-Butanone (MEK)	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
n-Butylbenzene	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
sec-Butylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
tert-Butylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Carbon disulfide	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Carbon tetrachloride	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Chlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Chloroethane	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Chloroform	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Chloromethane	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
2-Chlorotoluene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
4-Chlorotoluene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Dibromochloromethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Dibromomethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1-Dichloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2-Dichloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1-Dichloroethene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2-Dichloropropane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,3-Dichloropropane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
2,2-Dichloropropane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1-Dichloropropene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Ethylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Hexachlorobutadiene	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
2-Hexanone (MBK)	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Isopropylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
4-Isopropyltoluene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Methylene Chloride	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32343/3-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32343

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
N-Propylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Styrene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Tetrachloroethene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Toluene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Trichloroethene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Vinyl chloride	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
m,p-Xylene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
o-Xylene	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Tetrahydrofuran	ND		10	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Ethyl ether	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
di-Isopropyl ether	ND		5.0	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
tert-Butanol	ND		100	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
1,4-Dioxane	ND		100	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		03/01/24 08:00	03/01/24 12:17	1
Ethanol	ND		1000	ug/Kg		03/01/24 08:00	03/01/24 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/01/24 08:00	03/01/24 12:17	1
Toluene-d8 (Surr)	99		70 - 130	03/01/24 08:00	03/01/24 12:17	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 12:17	1
Dibromofluoromethane (Surr)	98		70 - 130	03/01/24 08:00	03/01/24 12:17	1

Lab Sample ID: LCS 620-32343/1-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.3		ug/Kg		86	70 - 130
Acetone	20.0	20.1	J	ug/Kg		100	70 - 130
Acrylonitrile	20.0	18.4		ug/Kg		92	70 - 130
Benzene	20.0	18.4		ug/Kg		92	70 - 130
Bromobenzene	20.0	18.3		ug/Kg		91	70 - 130
Bromochloromethane	20.0	18.3		ug/Kg		92	70 - 130
Bromodichloromethane	20.0	18.1		ug/Kg		90	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32343/1-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	18.4		ug/Kg		92	70 - 130
Bromomethane	20.0	16.3		ug/Kg		81	70 - 130
2-Butanone (MEK)	20.0	20.2		ug/Kg		101	70 - 130
n-Butylbenzene	20.0	18.6		ug/Kg		93	70 - 130
sec-Butylbenzene	20.0	18.9		ug/Kg		95	70 - 130
tert-Butylbenzene	20.0	19.8		ug/Kg		99	70 - 130
Carbon disulfide	20.0	17.4		ug/Kg		87	70 - 130
Carbon tetrachloride	20.0	17.8		ug/Kg		89	70 - 130
Chlorobenzene	20.0	18.0		ug/Kg		90	70 - 130
Chloroethane	20.0	16.8		ug/Kg		84	70 - 130
Chloroform	20.0	17.7		ug/Kg		88	70 - 130
Chloromethane	20.0	16.2		ug/Kg		81	70 - 130
2-Chlorotoluene	20.0	18.7		ug/Kg		93	70 - 130
4-Chlorotoluene	20.0	18.5		ug/Kg		93	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/Kg		91	70 - 130
Dibromochloromethane	20.0	18.7		ug/Kg		93	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.2		ug/Kg		96	70 - 130
Dibromomethane	20.0	18.4		ug/Kg		92	70 - 130
1,2-Dichlorobenzene	20.0	18.2		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	17.7		ug/Kg		89	70 - 130
1,4-Dichlorobenzene	20.0	17.6		ug/Kg		88	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	15.0		ug/Kg		75	70 - 130
1,1-Dichloroethane	20.0	18.2		ug/Kg		91	70 - 130
1,2-Dichloroethane	20.0	17.9		ug/Kg		90	70 - 130
1,1-Dichloroethene	20.0	17.7		ug/Kg		88	70 - 130
cis-1,2-Dichloroethene	20.0	19.4		ug/Kg		97	70 - 130
trans-1,2-Dichloroethene	20.0	18.2		ug/Kg		91	70 - 130
1,2-Dichloropropane	20.0	18.6		ug/Kg		93	70 - 130
1,3-Dichloropropane	20.0	19.1		ug/Kg		95	70 - 130
2,2-Dichloropropane	20.0	18.4		ug/Kg		92	70 - 130
1,1-Dichloropropene	20.0	18.7		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	20.0	19.7		ug/Kg		98	70 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/Kg		97	70 - 130
Ethylbenzene	20.0	18.4		ug/Kg		92	70 - 130
Hexachlorobutadiene	20.0	17.7		ug/Kg		89	70 - 130
2-Hexanone (MBK)	20.0	20.4		ug/Kg		102	70 - 130
Isopropylbenzene	20.0	19.7		ug/Kg		98	70 - 130
4-Isopropyltoluene	20.0	19.3		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	20.4		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/Kg		99	70 - 130
Methylene Chloride	20.0	17.7		ug/Kg		88	70 - 130
Naphthalene	20.0	26.6	+	ug/Kg		133	70 - 130
N-Propylbenzene	20.0	18.4		ug/Kg		92	70 - 130
Styrene	20.0	19.6		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	20.0	18.5		ug/Kg		92	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.4		ug/Kg		87	70 - 130
Tetrachloroethene	20.0	18.1		ug/Kg		91	70 - 130
Toluene	20.0	18.4		ug/Kg		92	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32343/1-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	18.7		ug/Kg		93	70 - 130
1,2,4-Trichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130
1,3,5-Trichlorobenzene	20.0	18.1		ug/Kg		90	70 - 130
1,1,1-Trichloroethane	20.0	18.0		ug/Kg		90	70 - 130
1,1,2-Trichloroethane	20.0	18.3		ug/Kg		91	70 - 130
Trichloroethene	20.0	17.9		ug/Kg		89	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	17.0		ug/Kg		85	70 - 130
1,2,3-Trichloropropane	20.0	17.8		ug/Kg		89	70 - 130
1,2,4-Trimethylbenzene	20.0	19.3		ug/Kg		96	70 - 130
1,3,5-Trimethylbenzene	20.0	19.1		ug/Kg		95	70 - 130
Vinyl chloride	20.0	16.8		ug/Kg		84	70 - 130
m,p-Xylene	20.0	19.0		ug/Kg		95	70 - 130
o-Xylene	20.0	19.8		ug/Kg		99	70 - 130
Tetrahydrofuran	20.0	19.0		ug/Kg		95	70 - 130
Ethyl ether	20.0	18.5		ug/Kg		93	70 - 130
Tert-amyl methyl ether	20.0	20.4		ug/Kg		102	70 - 130
Ethyl tert-butyl ether	20.0	20.2		ug/Kg		101	70 - 130
di-Isopropyl ether	20.0	19.6		ug/Kg		98	70 - 130
tert-Butanol	200	209		ug/Kg		104	70 - 130
1,4-Dioxane	200	226		ug/Kg		113	70 - 130
trans-1,4-Dichloro-2-butene	20.0	17.5	J	ug/Kg		88	70 - 130
Ethanol	400	322	J	ug/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: LCSD 620-32343/2-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.7		ug/Kg		84	70 - 130	3	30
Acetone	20.0	19.4	J	ug/Kg		97	70 - 130	3	30
Acrylonitrile	20.0	18.2		ug/Kg		91	70 - 130	1	30
Benzene	20.0	18.0		ug/Kg		90	70 - 130	2	30
Bromobenzene	20.0	17.4		ug/Kg		87	70 - 130	5	30
Bromochloromethane	20.0	18.3		ug/Kg		91	70 - 130	0	30
Bromodichloromethane	20.0	17.6		ug/Kg		88	70 - 130	2	30
Bromoform	20.0	17.9		ug/Kg		89	70 - 130	3	30
Bromomethane	20.0	15.4		ug/Kg		77	70 - 130	5	30
2-Butanone (MEK)	20.0	18.8		ug/Kg		94	70 - 130	7	30
n-Butylbenzene	20.0	17.5		ug/Kg		88	70 - 130	6	30
sec-Butylbenzene	20.0	18.3		ug/Kg		91	70 - 130	4	30
tert-Butylbenzene	20.0	19.1		ug/Kg		96	70 - 130	3	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32343/2-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	20.0	17.0		ug/Kg		85	70 - 130	3	30
Carbon tetrachloride	20.0	17.4		ug/Kg		87	70 - 130	2	30
Chlorobenzene	20.0	17.6		ug/Kg		88	70 - 130	2	30
Chloroethane	20.0	16.3		ug/Kg		82	70 - 130	3	30
Chloroform	20.0	17.2		ug/Kg		86	70 - 130	3	30
Chloromethane	20.0	15.7		ug/Kg		79	70 - 130	3	30
2-Chlorotoluene	20.0	18.1		ug/Kg		90	70 - 130	3	30
4-Chlorotoluene	20.0	17.8		ug/Kg		89	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/Kg		90	70 - 130	2	30
Dibromochloromethane	20.0	18.1		ug/Kg		91	70 - 130	3	30
1,2-Dibromoethane (EDB)	20.0	19.0		ug/Kg		95	70 - 130	1	30
Dibromomethane	20.0	17.7		ug/Kg		89	70 - 130	3	30
1,2-Dichlorobenzene	20.0	17.7		ug/Kg		88	70 - 130	3	30
1,3-Dichlorobenzene	20.0	17.2		ug/Kg		86	70 - 130	3	30
1,4-Dichlorobenzene	20.0	16.7		ug/Kg		83	70 - 130	5	30
Dichlorodifluoromethane (Freon 12)	20.0	14.3		ug/Kg		71	70 - 130	5	30
1,1-Dichloroethane	20.0	17.4		ug/Kg		87	70 - 130	4	30
1,2-Dichloroethane	20.0	17.5		ug/Kg		87	70 - 130	3	30
1,1-Dichloroethene	20.0	17.2		ug/Kg		86	70 - 130	3	30
cis-1,2-Dichloroethene	20.0	18.0		ug/Kg		90	70 - 130	7	30
trans-1,2-Dichloroethene	20.0	17.2		ug/Kg		86	70 - 130	5	30
1,2-Dichloropropane	20.0	18.2		ug/Kg		91	70 - 130	2	30
1,3-Dichloropropane	20.0	18.6		ug/Kg		93	70 - 130	2	30
2,2-Dichloropropane	20.0	17.8		ug/Kg		89	70 - 130	4	30
1,1-Dichloropropene	20.0	18.1		ug/Kg		91	70 - 130	3	30
cis-1,3-Dichloropropene	20.0	19.2		ug/Kg		96	70 - 130	2	30
trans-1,3-Dichloropropene	20.0	18.9		ug/Kg		95	70 - 130	2	30
Ethylbenzene	20.0	18.0		ug/Kg		90	70 - 130	2	30
Hexachlorobutadiene	20.0	16.2		ug/Kg		81	70 - 130	9	30
2-Hexanone (MBK)	20.0	19.8		ug/Kg		99	70 - 130	3	30
Isopropylbenzene	20.0	19.2		ug/Kg		96	70 - 130	3	30
4-Isopropyltoluene	20.0	18.1		ug/Kg		91	70 - 130	6	30
Methyl tert-butyl ether	20.0	19.4		ug/Kg		97	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/Kg		94	70 - 130	6	30
Methylene Chloride	20.0	17.3		ug/Kg		87	70 - 130	2	30
Naphthalene	20.0	24.7		ug/Kg		123	70 - 130	8	30
N-Propylbenzene	20.0	17.8		ug/Kg		89	70 - 130	3	30
Styrene	20.0	19.3		ug/Kg		96	70 - 130	2	30
1,1,1,2-Tetrachloroethane	20.0	17.7		ug/Kg		88	70 - 130	4	30
1,1,2,2-Tetrachloroethane	20.0	16.7		ug/Kg		83	70 - 130	4	30
Tetrachloroethene	20.0	17.4		ug/Kg		87	70 - 130	4	30
Toluene	20.0	17.8		ug/Kg		89	70 - 130	3	30
1,2,3-Trichlorobenzene	20.0	18.7		ug/Kg		93	70 - 130	0	30
1,2,4-Trichlorobenzene	20.0	18.3		ug/Kg		91	70 - 130	0	30
1,3,5-Trichlorobenzene	20.0	17.1		ug/Kg		85	70 - 130	5	30
1,1,1-Trichloroethane	20.0	17.4		ug/Kg		87	70 - 130	3	30
1,1,2-Trichloroethane	20.0	18.0		ug/Kg		90	70 - 130	2	30
Trichloroethene	20.0	17.3		ug/Kg		86	70 - 130	4	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32343/2-A

Matrix: Solid

Analysis Batch: 32316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32343

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichlorofluoromethane (Freon 11)	20.0	16.7		ug/Kg		83	70 - 130	2	30
1,2,3-Trichloropropane	20.0	17.2		ug/Kg		86	70 - 130	3	30
1,2,4-Trimethylbenzene	20.0	18.6		ug/Kg		93	70 - 130	4	30
1,3,5-Trimethylbenzene	20.0	18.4		ug/Kg		92	70 - 130	3	30
Vinyl chloride	20.0	16.3		ug/Kg		81	70 - 130	3	30
m,p-Xylene	20.0	18.5		ug/Kg		93	70 - 130	3	30
o-Xylene	20.0	19.2		ug/Kg		96	70 - 130	3	30
Tetrahydrofuran	20.0	18.4		ug/Kg		92	70 - 130	3	30
Ethyl ether	20.0	18.1		ug/Kg		90	70 - 130	3	30
Tert-amyl methyl ether	20.0	19.3		ug/Kg		97	70 - 130	5	30
Ethyl tert-butyl ether	20.0	19.6		ug/Kg		98	70 - 130	3	30
di-Isopropyl ether	20.0	19.1		ug/Kg		95	70 - 130	3	30
tert-Butanol	200	192		ug/Kg		96	70 - 130	8	30
1,4-Dioxane	200	215		ug/Kg		108	70 - 130	5	30
trans-1,4-Dichloro-2-butene	20.0	17.0	J	ug/Kg		85	70 - 130	3	30
Ethanol	400	319	J	ug/Kg		80	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: MB 620-32387/3-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Acetone	ND		500	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Acrylonitrile	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Benzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Bromobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Bromochloromethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Bromodichloromethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Bromoform	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Bromomethane	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
2-Butanone (MEK)	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
n-Butylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
sec-Butylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
tert-Butylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Carbon disulfide	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Carbon tetrachloride	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Chlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Chloroethane	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Chloroform	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Chloromethane	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32387/3-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
4-Chlorotoluene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Dibromochloromethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Dibromomethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2-Dichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,3-Dichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,4-Dichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1-Dichloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2-Dichloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1-Dichloroethene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2-Dichloropropane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,3-Dichloropropane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
2,2-Dichloropropane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1-Dichloropropene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
cis-1,3-Dichloropropene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Ethylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Hexachlorobutadiene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
2-Hexanone (MBK)	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Isopropylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
4-Isopropyltoluene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Methyl tert-butyl ether	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Methylene Chloride	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Naphthalene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
N-Propylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Styrene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Tetrachloroethene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Toluene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1,1-Trichloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,1,2-Trichloroethane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Trichloroethene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2,3-Trichloropropane	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Vinyl chloride	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
m,p-Xylene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
o-Xylene	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32387/3-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32387

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Ethyl ether	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Tert-amyl methyl ether	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Ethyl tert-butyl ether	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
di-Isopropyl ether	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
tert-Butanol	ND		1000	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
1,4-Dioxane	ND		1000	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		03/04/24 09:00	03/04/24 11:45	1
Ethanol	ND		10000	ug/Kg		03/04/24 09:00	03/04/24 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/04/24 09:00	03/04/24 11:45	1
Toluene-d8 (Surr)	100		70 - 130	03/04/24 09:00	03/04/24 11:45	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/04/24 09:00	03/04/24 11:45	1
Dibromofluoromethane (Surr)	98		70 - 130	03/04/24 09:00	03/04/24 11:45	1

Lab Sample ID: LCS 620-32387/1-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	955		ug/Kg		95	91 - 125
Acetone	1000	882		ug/Kg		88	47 - 157
Acrylonitrile	1000	1220		ug/Kg		122	79 - 129
Benzene	1000	1160		ug/Kg		116	88 - 130
Bromobenzene	1000	964		ug/Kg		96	81 - 125
Bromochloromethane	1000	997		ug/Kg		100	85 - 139
Bromodichloromethane	1000	1010		ug/Kg		101	84 - 134
Bromoform	1000	999		ug/Kg		100	83 - 131
Bromomethane	1000	976		ug/Kg		98	63 - 157
2-Butanone (MEK)	1000	954		ug/Kg		95	58 - 161
n-Butylbenzene	1000	1020		ug/Kg		102	83 - 137
sec-Butylbenzene	1000	1040		ug/Kg		104	79 - 131
tert-Butylbenzene	1000	1010		ug/Kg		101	82 - 131
Carbon disulfide	1000	1060		ug/Kg		106	82 - 135
Carbon tetrachloride	1000	957		ug/Kg		96	77 - 139
Chlorobenzene	1000	954		ug/Kg		95	85 - 121
Chloroethane	1000	909		ug/Kg		91	61 - 156
Chloroform	1000	1080		ug/Kg		108	89 - 123
Chloromethane	1000	1190		ug/Kg		119	81 - 130
2-Chlorotoluene	1000	1040		ug/Kg		104	90 - 117
4-Chlorotoluene	1000	998		ug/Kg		100	88 - 121
1,2-Dibromo-3-Chloropropane	1000	1070		ug/Kg		107	75 - 142
Dibromochloromethane	1000	961		ug/Kg		96	85 - 131
1,2-Dibromoethane (EDB)	1000	1090		ug/Kg		109	85 - 133
Dibromomethane	1000	1030		ug/Kg		103	90 - 128
1,2-Dichlorobenzene	1000	1040		ug/Kg		104	88 - 128
1,3-Dichlorobenzene	1000	1130		ug/Kg		113	78 - 133

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32387/1-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	1000	907		ug/Kg		91	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	1160		ug/Kg		116	55 - 159
1,1-Dichloroethane	1000	1100		ug/Kg		110	89 - 129
1,2-Dichloroethane	1000	1040		ug/Kg		104	82 - 137
1,1-Dichloroethene	1000	1020		ug/Kg		102	82 - 138
cis-1,2-Dichloroethene	1000	1050		ug/Kg		105	79 - 133
trans-1,2-Dichloroethene	1000	1020		ug/Kg		102	81 - 137
1,2-Dichloropropane	1000	1100		ug/Kg		110	89 - 128
1,3-Dichloropropane	1000	1160		ug/Kg		116	86 - 133
2,2-Dichloropropane	1000	1010		ug/Kg		101	91 - 131
1,1-Dichloropropene	1000	1050		ug/Kg		105	75 - 137
cis-1,3-Dichloropropene	1000	1090		ug/Kg		109	84 - 122
trans-1,3-Dichloropropene	1000	1110		ug/Kg		111	90 - 121
Ethylbenzene	1000	1070		ug/Kg		107	89 - 126
Hexachlorobutadiene	1000	939		ug/Kg		94	74 - 131
2-Hexanone (MBK)	1000	839		ug/Kg		84	41 - 167
Isopropylbenzene	1000	999		ug/Kg		100	88 - 125
4-Isopropyltoluene	1000	986		ug/Kg		99	86 - 128
Methyl tert-butyl ether	1000	1070		ug/Kg		107	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	925		ug/Kg		93	80 - 135
Methylene Chloride	1000	980		ug/Kg		98	87 - 119
Naphthalene	1000	1030		ug/Kg		103	60 - 145
N-Propylbenzene	1000	1140		ug/Kg		114	87 - 120
Styrene	1000	1040		ug/Kg		104	88 - 125
1,1,1,2-Tetrachloroethane	1000	943		ug/Kg		94	81 - 128
1,1,1,2,2-Tetrachloroethane	1000	1060		ug/Kg		106	88 - 126
Tetrachloroethene	1000	959		ug/Kg		96	81 - 124
Toluene	1000	1020		ug/Kg		102	84 - 124
1,2,3-Trichlorobenzene	1000	1100		ug/Kg		110	68 - 145
1,2,4-Trichlorobenzene	1000	1030		ug/Kg		103	57 - 141
1,3,5-Trichlorobenzene	1000	983		ug/Kg		98	70 - 137
1,1,1-Trichloroethane	1000	985		ug/Kg		98	88 - 131
1,1,2-Trichloroethane	1000	1080		ug/Kg		108	91 - 129
Trichloroethene	1000	1010		ug/Kg		101	88 - 131
Trichlorofluoromethane (Freon 11)	1000	983		ug/Kg		98	86 - 130
1,2,3-Trichloropropane	1000	1100		ug/Kg		110	92 - 126
1,2,4-Trimethylbenzene	1000	1040		ug/Kg		104	87 - 126
1,3,5-Trimethylbenzene	1000	1030		ug/Kg		103	90 - 125
Vinyl chloride	1000	1120		ug/Kg		112	73 - 145
m,p-Xylene	1000	1020		ug/Kg		102	83 - 122
o-Xylene	1000	990		ug/Kg		99	87 - 122
Tetrahydrofuran	1000	1000		ug/Kg		100	81 - 134
Ethyl ether	1000	1170		ug/Kg		117	84 - 144
Tert-amyl methyl ether	1000	1060		ug/Kg		106	69 - 151
Ethyl tert-butyl ether	1000	1060		ug/Kg		106	75 - 128
di-Isopropyl ether	1000	1090		ug/Kg		109	82 - 131
tert-Butanol	10000	11000		ug/Kg		110	85 - 148

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32387/1-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10000	11600		ug/Kg		116	10 - 178
trans-1,4-Dichloro-2-butene	1000	1270		ug/Kg		127	74 - 151
Ethanol	20000	24800		ug/Kg		124	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: LCSD 620-32387/2-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	944		ug/Kg		94	91 - 125	1	30
Acetone	1000	999		ug/Kg		100	47 - 157	12	30
Acrylonitrile	1000	1180		ug/Kg		118	79 - 129	3	30
Benzene	1000	1140		ug/Kg		114	88 - 130	2	30
Bromobenzene	1000	973		ug/Kg		97	81 - 125	1	30
Bromochloromethane	1000	990		ug/Kg		99	85 - 139	1	30
Bromodichloromethane	1000	984		ug/Kg		98	84 - 134	3	30
Bromoform	1000	993		ug/Kg		99	83 - 131	1	30
Bromomethane	1000	917		ug/Kg		92	63 - 157	6	30
2-Butanone (MEK)	1000	1010		ug/Kg		101	58 - 161	6	30
n-Butylbenzene	1000	1050		ug/Kg		105	83 - 137	3	30
sec-Butylbenzene	1000	1040		ug/Kg		104	79 - 131	1	30
tert-Butylbenzene	1000	1000		ug/Kg		100	82 - 131	0	30
Carbon disulfide	1000	1050		ug/Kg		105	82 - 135	1	30
Carbon tetrachloride	1000	952		ug/Kg		95	77 - 139	1	30
Chlorobenzene	1000	958		ug/Kg		96	85 - 121	0	30
Chloroethane	1000	798		ug/Kg		80	61 - 156	13	30
Chloroform	1000	1060		ug/Kg		106	89 - 123	2	30
Chloromethane	1000	1160		ug/Kg		116	81 - 130	2	30
2-Chlorotoluene	1000	1050		ug/Kg		105	90 - 117	2	30
4-Chlorotoluene	1000	998		ug/Kg		100	88 - 121	0	30
1,2-Dibromo-3-Chloropropane	1000	1070		ug/Kg		107	75 - 142	0	30
Dibromochloromethane	1000	951		ug/Kg		95	85 - 131	1	30
1,2-Dibromoethane (EDB)	1000	1070		ug/Kg		107	85 - 133	2	30
Dibromomethane	1000	1010		ug/Kg		101	90 - 128	3	30
1,2-Dichlorobenzene	1000	1090		ug/Kg		109	88 - 128	5	30
1,3-Dichlorobenzene	1000	1110		ug/Kg		111	78 - 133	2	30
1,4-Dichlorobenzene	1000	930		ug/Kg		93	88 - 121	2	30
Dichlorodifluoromethane (Freon 12)	1000	1130		ug/Kg		113	55 - 159	3	30
1,1-Dichloroethane	1000	1080		ug/Kg		108	89 - 129	1	30
1,2-Dichloroethane	1000	998		ug/Kg		100	82 - 137	4	30
1,1-Dichloroethene	1000	1020		ug/Kg		102	82 - 138	0	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32387/2-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1000	1080		ug/Kg		108	79 - 133	3	30
trans-1,2-Dichloroethene	1000	1050		ug/Kg		105	81 - 137	3	30
1,2-Dichloropropane	1000	1080		ug/Kg		108	89 - 128	2	30
1,3-Dichloropropane	1000	1130		ug/Kg		113	86 - 133	3	30
2,2-Dichloropropane	1000	1000		ug/Kg		100	91 - 131	1	30
1,1-Dichloropropene	1000	1060		ug/Kg		106	75 - 137	1	30
cis-1,3-Dichloropropene	1000	1100		ug/Kg		110	84 - 122	1	30
trans-1,3-Dichloropropene	1000	1100		ug/Kg		110	90 - 121	1	30
Ethylbenzene	1000	1080		ug/Kg		108	89 - 126	1	30
Hexachlorobutadiene	1000	968		ug/Kg		97	74 - 131	3	30
2-Hexanone (MBK)	1000	967		ug/Kg		97	41 - 167	14	30
Isopropylbenzene	1000	1020		ug/Kg		102	88 - 125	3	30
4-Isopropyltoluene	1000	1010		ug/Kg		101	86 - 128	2	30
Methyl tert-butyl ether	1000	1070		ug/Kg		107	74 - 144	0	30
4-Methyl-2-pentanone (MIBK)	1000	917		ug/Kg		92	80 - 135	1	30
Methylene Chloride	1000	973		ug/Kg		97	87 - 119	1	30
Naphthalene	1000	1090		ug/Kg		109	60 - 145	6	30
N-Propylbenzene	1000	1150		ug/Kg		115	87 - 120	1	30
Styrene	1000	1070		ug/Kg		107	88 - 125	3	30
1,1,1,2-Tetrachloroethane	1000	948		ug/Kg		95	81 - 128	1	30
1,1,2,2-Tetrachloroethane	1000	1040		ug/Kg		104	88 - 126	2	30
Tetrachloroethene	1000	983		ug/Kg		98	81 - 124	3	30
Toluene	1000	1010		ug/Kg		101	84 - 124	1	30
1,2,3-Trichlorobenzene	1000	1180		ug/Kg		118	68 - 145	6	30
1,2,4-Trichlorobenzene	1000	1040		ug/Kg		104	57 - 141	1	30
1,3,5-Trichlorobenzene	1000	1030		ug/Kg		103	70 - 137	4	30
1,1,1-Trichloroethane	1000	980		ug/Kg		98	88 - 131	0	30
1,1,2-Trichloroethane	1000	1050		ug/Kg		105	91 - 129	3	30
Trichloroethene	1000	1020		ug/Kg		102	88 - 131	1	30
Trichlorofluoromethane (Freon 11)	1000	964		ug/Kg		96	86 - 130	2	30
1,2,3-Trichloropropane	1000	1080		ug/Kg		108	92 - 126	2	30
1,2,4-Trimethylbenzene	1000	1040		ug/Kg		104	87 - 126	1	30
1,3,5-Trimethylbenzene	1000	1040		ug/Kg		104	90 - 125	1	30
Vinyl chloride	1000	1060		ug/Kg		106	73 - 145	6	30
m,p-Xylene	1000	1040		ug/Kg		104	83 - 122	3	30
o-Xylene	1000	1010		ug/Kg		101	87 - 122	2	30
Tetrahydrofuran	1000	1120		ug/Kg		112	81 - 134	11	30
Ethyl ether	1000	1150		ug/Kg		115	84 - 144	2	30
Tert-amyl methyl ether	1000	1060		ug/Kg		106	69 - 151	0	30
Ethyl tert-butyl ether	1000	1070		ug/Kg		107	75 - 128	2	30
di-Isopropyl ether	1000	1090		ug/Kg		109	82 - 131	0	30
tert-Butanol	10000	11100		ug/Kg		111	85 - 148	2	30
1,4-Dioxane	10000	10800		ug/Kg		108	10 - 178	7	30
trans-1,4-Dichloro-2-butene	1000	1210		ug/Kg		121	74 - 151	5	30
Ethanol	20000	23400		ug/Kg		117	83 - 135	6	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32387/2-A

Matrix: Solid

Analysis Batch: 32359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32387

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-32389/3-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32389

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Acetone	ND		50	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Acrylonitrile	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Benzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Bromobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Bromochloromethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Bromodichloromethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Bromoform	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Bromomethane	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
2-Butanone (MEK)	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
n-Butylbenzene	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
sec-Butylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
tert-Butylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Carbon disulfide	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Carbon tetrachloride	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Chlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Chloroethane	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Chloroform	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Chloromethane	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
2-Chlorotoluene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
4-Chlorotoluene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Dibromochloromethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Dibromomethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1-Dichloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2-Dichloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1-Dichloroethene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2-Dichloropropane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,3-Dichloropropane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
2,2-Dichloropropane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1-Dichloropropene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32389/3-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32389

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Ethylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Hexachlorobutadiene	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
2-Hexanone (MBK)	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Isopropylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
4-Isopropyltoluene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Methylene Chloride	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Naphthalene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
N-Propylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Styrene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Tetrachloroethene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Toluene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Trichloroethene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Vinyl chloride	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
m,p-Xylene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
o-Xylene	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Tetrahydrofuran	ND		10	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Ethyl ether	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
di-Isopropyl ether	ND		5.0	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
tert-Butanol	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
1,4-Dioxane	ND		100	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		03/04/24 09:00	03/04/24 11:48	1
Ethanol	ND		1000	ug/Kg		03/04/24 09:00	03/04/24 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/04/24 09:00	03/04/24 11:48	1
Toluene-d8 (Surr)	98		70 - 130	03/04/24 09:00	03/04/24 11:48	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	03/04/24 09:00	03/04/24 11:48	1
Dibromofluoromethane (Surr)	98		70 - 130	03/04/24 09:00	03/04/24 11:48	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32389/1-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.0		ug/Kg		100	70 - 130
Acetone	20.0	18.7	J	ug/Kg		93	70 - 130
Acrylonitrile	20.0	20.3		ug/Kg		102	70 - 130
Benzene	20.0	19.8		ug/Kg		99	70 - 130
Bromobenzene	20.0	18.7		ug/Kg		94	70 - 130
Bromochloromethane	20.0	20.1		ug/Kg		101	70 - 130
Bromodichloromethane	20.0	19.2		ug/Kg		96	70 - 130
Bromoform	20.0	18.2		ug/Kg		91	70 - 130
Bromomethane	20.0	18.2		ug/Kg		91	70 - 130
2-Butanone (MEK)	20.0	19.5		ug/Kg		97	70 - 130
n-Butylbenzene	20.0	19.4		ug/Kg		97	70 - 130
sec-Butylbenzene	20.0	19.9		ug/Kg		99	70 - 130
tert-Butylbenzene	20.0	20.1		ug/Kg		100	70 - 130
Carbon disulfide	20.0	20.6		ug/Kg		103	70 - 130
Carbon tetrachloride	20.0	19.7		ug/Kg		98	70 - 130
Chlorobenzene	20.0	18.8		ug/Kg		94	70 - 130
Chloroethane	20.0	20.0		ug/Kg		100	70 - 130
Chloroform	20.0	19.0		ug/Kg		95	70 - 130
Chloromethane	20.0	21.4		ug/Kg		107	70 - 130
2-Chlorotoluene	20.0	19.3		ug/Kg		96	70 - 130
4-Chlorotoluene	20.0	19.1		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/Kg		88	70 - 130
Dibromochloromethane	20.0	18.7		ug/Kg		94	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.7		ug/Kg		99	70 - 130
Dibromomethane	20.0	18.9		ug/Kg		94	70 - 130
1,2-Dichlorobenzene	20.0	18.0		ug/Kg		90	70 - 130
1,3-Dichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		90	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	22.8		ug/Kg		114	70 - 130
1,1-Dichloroethane	20.0	19.8		ug/Kg		99	70 - 130
1,2-Dichloroethane	20.0	19.3		ug/Kg		96	70 - 130
1,1-Dichloroethene	20.0	20.5		ug/Kg		103	70 - 130
cis-1,2-Dichloroethene	20.0	20.1		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	20.0	19.7		ug/Kg		99	70 - 130
1,2-Dichloropropane	20.0	19.7		ug/Kg		98	70 - 130
1,3-Dichloropropane	20.0	19.5		ug/Kg		97	70 - 130
2,2-Dichloropropane	20.0	19.5		ug/Kg		97	70 - 130
1,1-Dichloropropene	20.0	20.3		ug/Kg		101	70 - 130
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	70 - 130
trans-1,3-Dichloropropene	20.0	19.7		ug/Kg		98	70 - 130
Ethylbenzene	20.0	19.3		ug/Kg		97	70 - 130
Hexachlorobutadiene	20.0	18.0		ug/Kg		90	70 - 130
2-Hexanone (MBK)	20.0	18.6		ug/Kg		93	70 - 130
Isopropylbenzene	20.0	20.0		ug/Kg		100	70 - 130
4-Isopropyltoluene	20.0	19.8		ug/Kg		99	70 - 130
Methyl tert-butyl ether	20.0	20.4		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/Kg		93	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32389/1-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	19.6		ug/Kg		98	70 - 130
Naphthalene	20.0	20.3		ug/Kg		101	70 - 130
N-Propylbenzene	20.0	19.3		ug/Kg		97	70 - 130
Styrene	20.0	19.4		ug/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.3		ug/Kg		87	70 - 130
Tetrachloroethene	20.0	19.5		ug/Kg		98	70 - 130
Toluene	20.0	19.6		ug/Kg		98	70 - 130
1,2,3-Trichlorobenzene	20.0	18.0		ug/Kg		90	70 - 130
1,2,4-Trichlorobenzene	20.0	18.3		ug/Kg		92	70 - 130
1,3,5-Trichlorobenzene	20.0	18.2		ug/Kg		91	70 - 130
1,1,1-Trichloroethane	20.0	19.4		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	20.0	18.8		ug/Kg		94	70 - 130
Trichloroethene	20.0	19.2		ug/Kg		96	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	19.3		ug/Kg		96	70 - 130
1,2,3-Trichloropropane	20.0	17.8		ug/Kg		89	70 - 130
1,2,4-Trimethylbenzene	20.0	19.8		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	20.0	19.7		ug/Kg		99	70 - 130
Vinyl chloride	20.0	20.7		ug/Kg		104	70 - 130
m,p-Xylene	20.0	19.8		ug/Kg		99	70 - 130
o-Xylene	20.0	20.1		ug/Kg		100	70 - 130
Tetrahydrofuran	20.0	19.5		ug/Kg		97	70 - 130
Ethyl ether	20.0	20.2		ug/Kg		101	70 - 130
Tert-amyl methyl ether	20.0	20.4		ug/Kg		102	70 - 130
Ethyl tert-butyl ether	20.0	20.8		ug/Kg		104	70 - 130
di-Isopropyl ether	20.0	20.6		ug/Kg		103	70 - 130
tert-Butanol	200	192		ug/Kg		96	70 - 130
1,4-Dioxane	200	201		ug/Kg		100	70 - 130
trans-1,4-Dichloro-2-butene	20.0	17.1	J	ug/Kg		85	70 - 130
Ethanol	400	302	J	ug/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: LCSD 620-32389/2-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.1		ug/Kg		100	70 - 130	0	30
Acetone	20.0	19.0	J	ug/Kg		95	70 - 130	2	30
Acrylonitrile	20.0	20.1		ug/Kg		101	70 - 130	1	30
Benzene	20.0	20.3		ug/Kg		101	70 - 130	2	30
Bromobenzene	20.0	18.9		ug/Kg		94	70 - 130	1	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32389/2-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	20.0	20.4		ug/Kg		102	70 - 130	1	30
Bromodichloromethane	20.0	19.4		ug/Kg		97	70 - 130	1	30
Bromoform	20.0	18.6		ug/Kg		93	70 - 130	2	30
Bromomethane	20.0	19.0		ug/Kg		95	70 - 130	4	30
2-Butanone (MEK)	20.0	19.9		ug/Kg		99	70 - 130	2	30
n-Butylbenzene	20.0	19.7		ug/Kg		99	70 - 130	2	30
sec-Butylbenzene	20.0	19.9		ug/Kg		100	70 - 130	0	30
tert-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 130	1	30
Carbon disulfide	20.0	21.0		ug/Kg		105	70 - 130	2	30
Carbon tetrachloride	20.0	19.8		ug/Kg		99	70 - 130	1	30
Chlorobenzene	20.0	19.1		ug/Kg		95	70 - 130	2	30
Chloroethane	20.0	19.7		ug/Kg		98	70 - 130	2	30
Chloroform	20.0	19.2		ug/Kg		96	70 - 130	1	30
Chloromethane	20.0	21.3		ug/Kg		107	70 - 130	1	30
2-Chlorotoluene	20.0	19.5		ug/Kg		97	70 - 130	1	30
4-Chlorotoluene	20.0	19.2		ug/Kg		96	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/Kg		96	70 - 130	8	30
Dibromochloromethane	20.0	19.1		ug/Kg		95	70 - 130	2	30
1,2-Dibromoethane (EDB)	20.0	19.9		ug/Kg		99	70 - 130	1	30
Dibromomethane	20.0	19.6		ug/Kg		98	70 - 130	4	30
1,2-Dichlorobenzene	20.0	18.7		ug/Kg		94	70 - 130	4	30
1,3-Dichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130	0	30
1,4-Dichlorobenzene	20.0	18.2		ug/Kg		91	70 - 130	2	30
Dichlorodifluoromethane (Freon 12)	20.0	23.2		ug/Kg		116	70 - 130	2	30
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	70 - 130	2	30
1,2-Dichloroethane	20.0	19.8		ug/Kg		99	70 - 130	3	30
1,1-Dichloroethene	20.0	20.2		ug/Kg		101	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	21.1		ug/Kg		105	70 - 130	5	30
trans-1,2-Dichloroethene	20.0	20.1		ug/Kg		101	70 - 130	2	30
1,2-Dichloropropane	20.0	20.2		ug/Kg		101	70 - 130	2	30
1,3-Dichloropropane	20.0	19.9		ug/Kg		100	70 - 130	2	30
2,2-Dichloropropane	20.0	20.0		ug/Kg		100	70 - 130	3	30
1,1-Dichloropropene	20.0	20.6		ug/Kg		103	70 - 130	2	30
cis-1,3-Dichloropropene	20.0	20.1		ug/Kg		101	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	20.4		ug/Kg		102	70 - 130	4	30
Ethylbenzene	20.0	19.6		ug/Kg		98	70 - 130	2	30
Hexachlorobutadiene	20.0	17.9		ug/Kg		89	70 - 130	0	30
2-Hexanone (MBK)	20.0	18.3		ug/Kg		92	70 - 130	2	30
Isopropylbenzene	20.0	20.3		ug/Kg		102	70 - 130	2	30
4-Isopropyltoluene	20.0	20.0		ug/Kg		100	70 - 130	1	30
Methyl tert-butyl ether	20.0	21.3		ug/Kg		107	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	20.0	18.3		ug/Kg		91	70 - 130	2	30
Methylene Chloride	20.0	19.9		ug/Kg		99	70 - 130	2	30
Naphthalene	20.0	21.1		ug/Kg		106	70 - 130	4	30
N-Propylbenzene	20.0	19.4		ug/Kg		97	70 - 130	0	30
Styrene	20.0	20.3		ug/Kg		102	70 - 130	4	30
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/Kg		96	70 - 130	2	30
1,1,2,2-Tetrachloroethane	20.0	17.8		ug/Kg		89	70 - 130	3	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32389/2-A

Matrix: Solid

Analysis Batch: 32362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	20.0	19.9		ug/Kg		100	70 - 130	2	30
Toluene	20.0	19.8		ug/Kg		99	70 - 130	1	30
1,2,3-Trichlorobenzene	20.0	18.9		ug/Kg		95	70 - 130	5	30
1,2,4-Trichlorobenzene	20.0	18.7		ug/Kg		94	70 - 130	2	30
1,3,5-Trichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130	1	30
1,1,1-Trichloroethane	20.0	19.7		ug/Kg		99	70 - 130	2	30
1,1,2-Trichloroethane	20.0	19.4		ug/Kg		97	70 - 130	3	30
Trichloroethene	20.0	19.3		ug/Kg		97	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	20.0	20.3		ug/Kg		101	70 - 130	5	30
1,2,3-Trichloropropane	20.0	18.3		ug/Kg		91	70 - 130	3	30
1,2,4-Trimethylbenzene	20.0	19.9		ug/Kg		99	70 - 130	1	30
1,3,5-Trimethylbenzene	20.0	19.8		ug/Kg		99	70 - 130	0	30
Vinyl chloride	20.0	20.9		ug/Kg		104	70 - 130	1	30
m,p-Xylene	20.0	20.1		ug/Kg		100	70 - 130	1	30
o-Xylene	20.0	20.3		ug/Kg		101	70 - 130	1	30
Tetrahydrofuran	20.0	20.5		ug/Kg		102	70 - 130	5	30
Ethyl ether	20.0	20.7		ug/Kg		103	70 - 130	2	30
Tert-amyl methyl ether	20.0	20.8		ug/Kg		104	70 - 130	2	30
Ethyl tert-butyl ether	20.0	21.3		ug/Kg		106	70 - 130	3	30
di-Isopropyl ether	20.0	21.2		ug/Kg		106	70 - 130	3	30
tert-Butanol	200	190		ug/Kg		95	70 - 130	1	30
1,4-Dioxane	200	213		ug/Kg		106	70 - 130	6	30
trans-1,4-Dichloro-2-butene	20.0	18.8	J	ug/Kg		94	70 - 130	10	30
Ethanol	400	313	J	ug/Kg		78	70 - 130	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-32402/7

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/04/24 20:12	1
Acetone	ND		10	ug/L			03/04/24 20:12	1
Acrylonitrile	ND		0.50	ug/L			03/04/24 20:12	1
Benzene	ND		1.0	ug/L			03/04/24 20:12	1
Bromobenzene	ND		1.0	ug/L			03/04/24 20:12	1
Bromochloromethane	ND		1.0	ug/L			03/04/24 20:12	1
Bromodichloromethane	ND		0.50	ug/L			03/04/24 20:12	1
Bromoform	ND		1.0	ug/L			03/04/24 20:12	1
Bromomethane	ND		2.0	ug/L			03/04/24 20:12	1
2-Butanone (MEK)	ND		2.0	ug/L			03/04/24 20:12	1
n-Butylbenzene	ND		1.0	ug/L			03/04/24 20:12	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32402/7

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
tert-Butylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
Carbon disulfide	ND		2.0	ug/L			03/04/24 20:12	1
Carbon tetrachloride	ND		1.0	ug/L			03/04/24 20:12	1
Chlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
Chloroethane	ND		2.0	ug/L			03/04/24 20:12	1
Chloroform	ND		1.0	ug/L			03/04/24 20:12	1
Chloromethane	ND		2.0	ug/L			03/04/24 20:12	1
2-Chlorotoluene	ND		1.0	ug/L			03/04/24 20:12	1
4-Chlorotoluene	ND		1.0	ug/L			03/04/24 20:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/04/24 20:12	1
Dibromochloromethane	ND		0.50	ug/L			03/04/24 20:12	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/04/24 20:12	1
Dibromomethane	ND		1.0	ug/L			03/04/24 20:12	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/04/24 20:12	1
1,1-Dichloroethane	ND		1.0	ug/L			03/04/24 20:12	1
1,2-Dichloroethane	ND		1.0	ug/L			03/04/24 20:12	1
1,1-Dichloroethene	ND		1.0	ug/L			03/04/24 20:12	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/04/24 20:12	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/04/24 20:12	1
1,2-Dichloropropane	ND		1.0	ug/L			03/04/24 20:12	1
1,3-Dichloropropane	ND		1.0	ug/L			03/04/24 20:12	1
2,2-Dichloropropane	ND		1.0	ug/L			03/04/24 20:12	1
1,1-Dichloropropene	ND		1.0	ug/L			03/04/24 20:12	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/04/24 20:12	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/04/24 20:12	1
Ethylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
Hexachlorobutadiene	ND		1.0	ug/L			03/04/24 20:12	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/04/24 20:12	1
Isopropylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
4-Isopropyltoluene	ND		1.0	ug/L			03/04/24 20:12	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/04/24 20:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/04/24 20:12	1
Methylene Chloride	ND		2.0	ug/L			03/04/24 20:12	1
Naphthalene	ND		2.0	ug/L			03/04/24 20:12	1
N-Propylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
Styrene	ND		1.0	ug/L			03/04/24 20:12	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/04/24 20:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/04/24 20:12	1
Tetrachloroethene	ND		1.0	ug/L			03/04/24 20:12	1
Toluene	ND		1.0	ug/L			03/04/24 20:12	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/04/24 20:12	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/04/24 20:12	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32402/7

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	ug/L			03/04/24 20:12	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/04/24 20:12	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/04/24 20:12	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/04/24 20:12	1
Vinyl chloride	ND		1.0	ug/L			03/04/24 20:12	1
m,p-Xylene	ND		1.0	ug/L			03/04/24 20:12	1
o-Xylene	ND		1.0	ug/L			03/04/24 20:12	1
Tetrahydrofuran	ND		2.0	ug/L			03/04/24 20:12	1
Ethyl ether	ND		1.0	ug/L			03/04/24 20:12	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/04/24 20:12	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/04/24 20:12	1
di-Isopropyl ether	ND		1.0	ug/L			03/04/24 20:12	1
tert-Butanol	ND		10	ug/L			03/04/24 20:12	1
1,4-Dioxane	ND		50	ug/L			03/04/24 20:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/04/24 20:12	1
Ethanol	ND		200	ug/L			03/04/24 20:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		03/04/24 20:12	1
Toluene-d8 (Surr)	97		70 - 130		03/04/24 20:12	1
1,2-Dichloroethane-d4 (Surr)	79		70 - 130		03/04/24 20:12	1
Dibromofluoromethane (Surr)	85		70 - 130		03/04/24 20:12	1

Lab Sample ID: LCS 620-32402/4

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	15.4	*-	ug/L		77	85 - 124
Acetone	20.0	16.8		ug/L		84	14 - 133
Acrylonitrile	20.0	29.7	*+	ug/L		148	62 - 134
Benzene	20.0	23.9	*+	ug/L		119	86 - 111
Bromobenzene	20.0	17.0		ug/L		85	82 - 120
Bromochloromethane	20.0	19.1		ug/L		95	83 - 123
Bromodichloromethane	20.0	16.6		ug/L		83	83 - 137
Bromoform	20.0	15.9	*-	ug/L		80	91 - 137
Bromomethane	20.0	11.2		ug/L		56	29 - 148
2-Butanone (MEK)	20.0	23.3		ug/L		116	10 - 200
n-Butylbenzene	20.0	22.3		ug/L		111	85 - 138
sec-Butylbenzene	20.0	19.8		ug/L		99	75 - 118
tert-Butylbenzene	20.0	19.2		ug/L		96	85 - 122
Carbon disulfide	20.0	18.6		ug/L		93	69 - 150
Carbon tetrachloride	20.0	14.4	*-	ug/L		72	84 - 123
Chlorobenzene	20.0	18.9		ug/L		95	93 - 115
Chloroethane	20.0	10.6	*-	ug/L		53	56 - 155
Chloroform	20.0	17.7		ug/L		89	84 - 116
Chloromethane	20.0	28.3	*+	ug/L		142	45 - 138

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32402/4

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	19.3		ug/L		96	88 - 116
4-Chlorotoluene	20.0	18.0		ug/L		90	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/L		91	70 - 139
Dibromochloromethane	20.0	16.9		ug/L		84	83 - 132
1,2-Dibromoethane (EDB)	20.0	20.4		ug/L		102	82 - 125
Dibromomethane	20.0	18.0		ug/L		90	80 - 125
1,2-Dichlorobenzene	20.0	21.5		ug/L		107	84 - 128
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	85 - 120
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	15.8		ug/L		79	36 - 131
1,1-Dichloroethane	20.0	21.2		ug/L		106	81 - 120
1,2-Dichloroethane	20.0	16.1	*-	ug/L		81	82 - 116
1,1-Dichloroethene	20.0	19.0		ug/L		95	83 - 120
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	81 - 124
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	81 - 127
1,2-Dichloropropane	20.0	24.6		ug/L		123	76 - 132
1,3-Dichloropropane	20.0	22.2		ug/L		111	74 - 122
2,2-Dichloropropane	20.0	17.1		ug/L		86	77 - 130
1,1-Dichloropropene	20.0	20.4		ug/L		102	81 - 115
cis-1,3-Dichloropropene	20.0	22.7		ug/L		114	74 - 129
trans-1,3-Dichloropropene	20.0	20.3		ug/L		101	78 - 126
Ethylbenzene	20.0	20.9		ug/L		105	89 - 117
Hexachlorobutadiene	20.0	16.0		ug/L		80	77 - 118
2-Hexanone (MBK)	20.0	20.9		ug/L		104	37 - 123
Isopropylbenzene	20.0	20.1		ug/L		100	83 - 117
4-Isopropyltoluene	20.0	21.5		ug/L		107	83 - 124
Methyl tert-butyl ether	20.0	20.4		ug/L		102	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	22.8		ug/L		114	59 - 118
Methylene Chloride	20.0	18.2		ug/L		91	75 - 121
Naphthalene	20.0	24.6		ug/L		123	67 - 123
N-Propylbenzene	20.0	21.5		ug/L		107	84 - 128
Styrene	20.0	20.6		ug/L		103	78 - 127
1,1,1,2-Tetrachloroethane	20.0	16.5	*-	ug/L		83	91 - 118
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	77 - 129
Tetrachloroethene	20.0	17.8		ug/L		89	85 - 116
Toluene	20.0	20.5		ug/L		102	88 - 109
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		107	67 - 134
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	78 - 133
1,3,5-Trichlorobenzene	20.0	19.6		ug/L		98	77 - 127
1,1,1-Trichloroethane	20.0	15.4	*-	ug/L		77	83 - 124
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	84 - 132
Trichloroethene	20.0	18.3		ug/L		91	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	12.8	*-	ug/L		64	82 - 126
1,2,3-Trichloropropane	20.0	18.7		ug/L		94	77 - 124
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		96	89 - 126
1,3,5-Trimethylbenzene	20.0	19.0		ug/L		95	89 - 125
Vinyl chloride	20.0	24.0		ug/L		120	62 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32402/4

Matrix: Water

Analysis Batch: 32402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylene	20.0	20.0		ug/L		100	85 - 123
o-Xylene	20.0	20.3		ug/L		102	85 - 119
Tetrahydrofuran	20.0	29.8	*+	ug/L		149	60 - 133
Ethyl ether	20.0	22.6		ug/L		113	69 - 122
Tert-amyl methyl ether	20.0	21.7		ug/L		108	50 - 140
Ethyl tert-butyl ether	20.0	23.9		ug/L		119	60 - 131
di-Isopropyl ether	20.0	29.5	*+	ug/L		148	67 - 125
tert-Butanol	200	224		ug/L		112	50 - 169
1,4-Dioxane	200	247		ug/L		124	28 - 150
trans-1,4-Dichloro-2-butene	20.0	20.8		ug/L		104	48 - 153
Ethanol	400	634		ug/L		158	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	78		70 - 130
Dibromofluoromethane (Surr)	86		70 - 130

Lab Sample ID: LCSD 620-32402/5

Matrix: Water

Analysis Batch: 32402

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	15.9	*-	ug/L		80	85 - 124	3	20
Acetone	20.0	18.5		ug/L		93	14 - 133	9	20
Acrylonitrile	20.0	28.8	*+	ug/L		144	62 - 134	3	20
Benzene	20.0	24.0	*+	ug/L		120	86 - 111	0	20
Bromobenzene	20.0	17.3		ug/L		86	82 - 120	2	20
Bromochloromethane	20.0	19.0		ug/L		95	83 - 123	0	20
Bromodichloromethane	20.0	16.7		ug/L		83	83 - 137	0	20
Bromoform	20.0	15.4	*-	ug/L		77	91 - 137	3	20
Bromomethane	20.0	12.0		ug/L		60	29 - 148	7	20
2-Butanone (MEK)	20.0	23.8		ug/L		119	10 - 200	2	20
n-Butylbenzene	20.0	22.6		ug/L		113	85 - 138	2	20
sec-Butylbenzene	20.0	19.5		ug/L		97	75 - 118	1	20
tert-Butylbenzene	20.0	19.1		ug/L		95	85 - 122	0	20
Carbon disulfide	20.0	18.9		ug/L		94	69 - 150	1	20
Carbon tetrachloride	20.0	14.3	*-	ug/L		72	84 - 123	1	20
Chlorobenzene	20.0	18.7		ug/L		93	93 - 115	1	20
Chloroethane	20.0	11.0	*-	ug/L		55	56 - 155	4	20
Chloroform	20.0	17.7		ug/L		88	84 - 116	0	20
Chloromethane	20.0	28.1	*+	ug/L		141	45 - 138	1	20
2-Chlorotoluene	20.0	19.3		ug/L		96	88 - 116	0	20
4-Chlorotoluene	20.0	18.0		ug/L		90	81 - 128	0	20
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/L		89	70 - 139	2	20
Dibromochloromethane	20.0	16.7		ug/L		83	83 - 132	1	20
1,2-Dibromoethane (EDB)	20.0	20.3		ug/L		102	82 - 125	1	20
Dibromomethane	20.0	18.0		ug/L		90	80 - 125	0	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32402/5

Matrix: Water

Analysis Batch: 32402

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 Limit
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	84 - 128	0	20
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	85 - 120	1	20
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	16.2		ug/L		81	36 - 131	3	20
1,1-Dichloroethane	20.0	20.8		ug/L		104	81 - 120	2	20
1,2-Dichloroethane	20.0	15.7	*-	ug/L		78	82 - 116	3	20
1,1-Dichloroethene	20.0	19.3		ug/L		97	83 - 120	2	20
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	81 - 124	1	20
trans-1,2-Dichloroethene	20.0	21.1		ug/L		105	81 - 127	2	20
1,2-Dichloropropane	20.0	24.7		ug/L		123	76 - 132	0	20
1,3-Dichloropropane	20.0	21.9		ug/L		110	74 - 122	1	20
2,2-Dichloropropane	20.0	17.0		ug/L		85	77 - 130	1	20
1,1-Dichloropropene	20.0	20.5		ug/L		102	81 - 115	0	20
cis-1,3-Dichloropropene	20.0	22.6		ug/L		113	74 - 129	1	20
trans-1,3-Dichloropropene	20.0	19.7		ug/L		99	78 - 126	3	20
Ethylbenzene	20.0	20.9		ug/L		104	89 - 117	0	20
Hexachlorobutadiene	20.0	16.3		ug/L		81	77 - 118	2	20
2-Hexanone (MBK)	20.0	22.1		ug/L		110	37 - 123	6	20
Isopropylbenzene	20.0	20.2		ug/L		101	83 - 117	1	20
4-Isopropyltoluene	20.0	21.7		ug/L		108	83 - 124	1	20
Methyl tert-butyl ether	20.0	20.6		ug/L		103	70 - 126	1	20
4-Methyl-2-pentanone (MIBK)	20.0	22.5		ug/L		112	59 - 118	1	20
Methylene Chloride	20.0	18.6		ug/L		93	75 - 121	2	20
Naphthalene	20.0	24.8	*+	ug/L		124	67 - 123	1	20
N-Propylbenzene	20.0	21.5		ug/L		107	84 - 128	0	20
Styrene	20.0	20.8		ug/L		104	78 - 127	1	20
1,1,1,2-Tetrachloroethane	20.0	16.5	*-	ug/L		82	91 - 118	0	20
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	77 - 129	2	20
Tetrachloroethene	20.0	17.9		ug/L		90	85 - 116	1	20
Toluene	20.0	20.2		ug/L		101	88 - 109	1	20
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		110	67 - 134	3	20
1,2,4-Trichlorobenzene	20.0	18.6		ug/L		93	78 - 133	4	20
1,3,5-Trichlorobenzene	20.0	19.7		ug/L		99	77 - 127	1	20
1,1,1-Trichloroethane	20.0	15.4	*-	ug/L		77	83 - 124	0	20
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	84 - 132	1	20
Trichloroethene	20.0	18.6		ug/L		93	74 - 118	2	20
Trichlorofluoromethane (Freon 11)	20.0	13.0	*-	ug/L		65	82 - 126	2	20
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	77 - 124	3	20
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	89 - 126	4	20
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	89 - 125	0	20
Vinyl chloride	20.0	23.9		ug/L		120	62 - 130	0	20
m,p-Xylene	20.0	19.8		ug/L		99	85 - 123	1	20
o-Xylene	20.0	20.2		ug/L		101	85 - 119	1	20
Tetrahydrofuran	20.0	29.8	*+	ug/L		149	60 - 133	0	20
Ethyl ether	20.0	22.4		ug/L		112	69 - 122	1	20
Tert-amyl methyl ether	20.0	21.5		ug/L		107	50 - 140	1	20
Ethyl tert-butyl ether	20.0	23.7		ug/L		118	60 - 131	1	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32402/5

Matrix: Water

Analysis Batch: 32402

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 Limit
di-Isopropyl ether	20.0	29.6	*+	ug/L		148	67 - 125	0	20
tert-Butanol	200	216		ug/L		108	50 - 169	3	20
1,4-Dioxane	200	225		ug/L		112	28 - 150	10	20
trans-1,4-Dichloro-2-butene	20.0	19.9		ug/L		99	48 - 153	5	20
Ethanol	400	561		ug/L		140	47 - 170	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	78		70 - 130
Dibromofluoromethane (Surr)	86		70 - 130

Lab Sample ID: MB 620-32421/7

Matrix: Water

Analysis Batch: 32421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/05/24 12:41	1
Acetone	ND		10	ug/L			03/05/24 12:41	1
Acrylonitrile	ND		0.50	ug/L			03/05/24 12:41	1
Benzene	ND		1.0	ug/L			03/05/24 12:41	1
Bromobenzene	ND		1.0	ug/L			03/05/24 12:41	1
Bromochloromethane	ND		1.0	ug/L			03/05/24 12:41	1
Bromodichloromethane	ND		0.50	ug/L			03/05/24 12:41	1
Bromoform	ND		1.0	ug/L			03/05/24 12:41	1
Bromomethane	ND		2.0	ug/L			03/05/24 12:41	1
2-Butanone (MEK)	ND		2.0	ug/L			03/05/24 12:41	1
n-Butylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
sec-Butylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
tert-Butylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
Carbon disulfide	ND		2.0	ug/L			03/05/24 12:41	1
Carbon tetrachloride	ND		1.0	ug/L			03/05/24 12:41	1
Chlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
Chloroethane	ND		2.0	ug/L			03/05/24 12:41	1
Chloroform	ND		1.0	ug/L			03/05/24 12:41	1
Chloromethane	ND		2.0	ug/L			03/05/24 12:41	1
2-Chlorotoluene	ND		1.0	ug/L			03/05/24 12:41	1
4-Chlorotoluene	ND		1.0	ug/L			03/05/24 12:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/05/24 12:41	1
Dibromochloromethane	ND		0.50	ug/L			03/05/24 12:41	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/05/24 12:41	1
Dibromomethane	ND		1.0	ug/L			03/05/24 12:41	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/05/24 12:41	1
1,1-Dichloroethane	ND		1.0	ug/L			03/05/24 12:41	1
1,2-Dichloroethane	ND		1.0	ug/L			03/05/24 12:41	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32421/7

Matrix: Water

Analysis Batch: 32421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	ug/L			03/05/24 12:41	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 12:41	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/05/24 12:41	1
1,2-Dichloropropane	ND		1.0	ug/L			03/05/24 12:41	1
1,3-Dichloropropane	ND		1.0	ug/L			03/05/24 12:41	1
2,2-Dichloropropane	ND		1.0	ug/L			03/05/24 12:41	1
1,1-Dichloropropene	ND		1.0	ug/L			03/05/24 12:41	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 12:41	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/05/24 12:41	1
Ethylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
Hexachlorobutadiene	ND		1.0	ug/L			03/05/24 12:41	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/05/24 12:41	1
Isopropylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
4-Isopropyltoluene	ND		1.0	ug/L			03/05/24 12:41	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/05/24 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/05/24 12:41	1
Methylene Chloride	ND		2.0	ug/L			03/05/24 12:41	1
Naphthalene	ND		2.0	ug/L			03/05/24 12:41	1
N-Propylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
Styrene	ND		1.0	ug/L			03/05/24 12:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/05/24 12:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/05/24 12:41	1
Tetrachloroethene	ND		1.0	ug/L			03/05/24 12:41	1
Toluene	ND		1.0	ug/L			03/05/24 12:41	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/05/24 12:41	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/05/24 12:41	1
Trichloroethene	ND		1.0	ug/L			03/05/24 12:41	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/05/24 12:41	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/05/24 12:41	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/05/24 12:41	1
Vinyl chloride	ND		1.0	ug/L			03/05/24 12:41	1
m,p-Xylene	ND		1.0	ug/L			03/05/24 12:41	1
o-Xylene	ND		1.0	ug/L			03/05/24 12:41	1
Tetrahydrofuran	ND		2.0	ug/L			03/05/24 12:41	1
Ethyl ether	ND		1.0	ug/L			03/05/24 12:41	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/05/24 12:41	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/05/24 12:41	1
di-Isopropyl ether	ND		1.0	ug/L			03/05/24 12:41	1
tert-Butanol	ND		10	ug/L			03/05/24 12:41	1
1,4-Dioxane	ND		50	ug/L			03/05/24 12:41	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/05/24 12:41	1
Ethanol	ND		200	ug/L			03/05/24 12:41	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32421/7

Matrix: Water

Analysis Batch: 32421

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/05/24 12:41	1
Toluene-d8 (Surr)	99		70 - 130		03/05/24 12:41	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/05/24 12:41	1
Dibromofluoromethane (Surr)	97		70 - 130		03/05/24 12:41	1

Lab Sample ID: LCS 620-32421/4

Matrix: Water

Analysis Batch: 32421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.0		ug/L		95	85 - 124
Acetone	20.0	10.2		ug/L		51	14 - 133
Acrylonitrile	20.0	25.1		ug/L		126	62 - 134
Benzene	20.0	23.1	*+	ug/L		116	86 - 111
Bromobenzene	20.0	18.8		ug/L		94	82 - 120
Bromochloromethane	20.0	20.0		ug/L		100	83 - 123
Bromodichloromethane	20.0	19.4		ug/L		97	83 - 137
Bromoform	20.0	19.0		ug/L		95	91 - 137
Bromomethane	20.0	13.1		ug/L		65	29 - 148
2-Butanone (MEK)	20.0	13.7		ug/L		69	10 - 200
n-Butylbenzene	20.0	21.0		ug/L		105	85 - 138
sec-Butylbenzene	20.0	20.9		ug/L		104	75 - 118
tert-Butylbenzene	20.0	19.9		ug/L		100	85 - 122
Carbon disulfide	20.0	21.3		ug/L		107	69 - 150
Carbon tetrachloride	20.0	18.5		ug/L		92	84 - 123
Chlorobenzene	20.0	18.8		ug/L		94	93 - 115
Chloroethane	20.0	15.4		ug/L		77	56 - 155
Chloroform	20.0	20.8		ug/L		104	84 - 116
Chloromethane	20.0	24.5		ug/L		122	45 - 138
2-Chlorotoluene	20.0	20.5		ug/L		102	88 - 116
4-Chlorotoluene	20.0	19.6		ug/L		98	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	21.7		ug/L		108	70 - 139
Dibromochloromethane	20.0	18.8		ug/L		94	83 - 132
1,2-Dibromoethane (EDB)	20.0	21.1		ug/L		106	82 - 125
Dibromomethane	20.0	20.3		ug/L		101	80 - 125
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	84 - 128
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	85 - 120
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	22.1		ug/L		110	36 - 131
1,1-Dichloroethane	20.0	21.2		ug/L		106	81 - 120
1,2-Dichloroethane	20.0	20.0		ug/L		100	82 - 116
1,1-Dichloroethene	20.0	20.9		ug/L		104	83 - 120
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	81 - 124
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	81 - 127
1,2-Dichloropropane	20.0	22.7		ug/L		114	76 - 132
1,3-Dichloropropane	20.0	22.7		ug/L		113	74 - 122
2,2-Dichloropropane	20.0	19.9		ug/L		100	77 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32421/4

Matrix: Water

Analysis Batch: 32421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	20.0	20.6		ug/L		103	81 - 115
cis-1,3-Dichloropropene	20.0	21.7		ug/L		108	74 - 129
trans-1,3-Dichloropropene	20.0	21.7		ug/L		108	78 - 126
Ethylbenzene	20.0	21.3		ug/L		107	89 - 117
Hexachlorobutadiene	20.0	17.7		ug/L		88	77 - 118
2-Hexanone (MBK)	20.0	13.1		ug/L		65	37 - 123
Isopropylbenzene	20.0	21.4		ug/L		107	83 - 117
4-Isopropyltoluene	20.0	20.1		ug/L		101	83 - 124
Methyl tert-butyl ether	20.0	21.2		ug/L		106	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/L		94	59 - 118
Methylene Chloride	20.0	19.7		ug/L		98	75 - 121
Naphthalene	20.0	20.9		ug/L		105	67 - 123
N-Propylbenzene	20.0	22.8		ug/L		114	84 - 128
Styrene	20.0	21.4		ug/L		107	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	91 - 118
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	77 - 129
Tetrachloroethene	20.0	19.3		ug/L		97	85 - 116
Toluene	20.0	20.8		ug/L		104	88 - 109
1,2,3-Trichlorobenzene	20.0	21.3		ug/L		107	67 - 134
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	78 - 133
1,3,5-Trichlorobenzene	20.0	19.6		ug/L		98	77 - 127
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	83 - 124
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	84 - 132
Trichloroethene	20.0	20.9		ug/L		105	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	18.1		ug/L		90	82 - 126
1,2,3-Trichloropropane	20.0	22.4		ug/L		112	77 - 124
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	89 - 126
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		101	89 - 125
Vinyl chloride	20.0	24.5		ug/L		123	62 - 130
m,p-Xylene	20.0	20.5		ug/L		102	85 - 123
o-Xylene	20.0	20.1		ug/L		100	85 - 119
Tetrahydrofuran	20.0	22.3		ug/L		111	60 - 133
Ethyl ether	20.0	22.8		ug/L		114	69 - 122
Tert-amyl methyl ether	20.0	21.3		ug/L		107	50 - 140
Ethyl tert-butyl ether	20.0	21.3		ug/L		106	60 - 131
di-Isopropyl ether	20.0	22.7		ug/L		114	67 - 125
tert-Butanol	200	222		ug/L		111	50 - 169
1,4-Dioxane	200	237		ug/L		118	28 - 150
trans-1,4-Dichloro-2-butene	20.0	23.8		ug/L		119	48 - 153
Ethanol	400	545		ug/L		136	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32421/5

Matrix: Water

Analysis Batch: 32421

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.9		ug/L		95	85 - 124	0	20
Acetone	20.0	10.4		ug/L		52	14 - 133	2	20
Acrylonitrile	20.0	24.9		ug/L		125	62 - 134	1	20
Benzene	20.0	23.7	*+	ug/L		118	86 - 111	2	20
Bromobenzene	20.0	19.1		ug/L		96	82 - 120	2	20
Bromochloromethane	20.0	20.7		ug/L		103	83 - 123	4	20
Bromodichloromethane	20.0	19.6		ug/L		98	83 - 137	1	20
Bromoform	20.0	19.4		ug/L		97	91 - 137	2	20
Bromomethane	20.0	14.5		ug/L		72	29 - 148	10	20
2-Butanone (MEK)	20.0	15.0		ug/L		75	10 - 200	9	20
n-Butylbenzene	20.0	21.7		ug/L		108	85 - 138	3	20
sec-Butylbenzene	20.0	20.7		ug/L		103	75 - 118	1	20
tert-Butylbenzene	20.0	20.2		ug/L		101	85 - 122	1	20
Carbon disulfide	20.0	21.3		ug/L		107	69 - 150	0	20
Carbon tetrachloride	20.0	18.5		ug/L		93	84 - 123	0	20
Chlorobenzene	20.0	19.3		ug/L		97	93 - 115	2	20
Chloroethane	20.0	15.8		ug/L		79	56 - 155	3	20
Chloroform	20.0	20.9		ug/L		105	84 - 116	1	20
Chloromethane	20.0	24.8		ug/L		124	45 - 138	1	20
2-Chlorotoluene	20.0	20.7		ug/L		103	88 - 116	1	20
4-Chlorotoluene	20.0	19.8		ug/L		99	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	22.0		ug/L		110	70 - 139	2	20
Dibromochloromethane	20.0	19.1		ug/L		95	83 - 132	1	20
1,2-Dibromoethane (EDB)	20.0	21.8		ug/L		109	82 - 125	3	20
Dibromomethane	20.0	20.3		ug/L		102	80 - 125	0	20
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	84 - 128	2	20
1,3-Dichlorobenzene	20.0	21.7		ug/L		109	85 - 120	0	20
1,4-Dichlorobenzene	20.0	18.5		ug/L		93	86 - 116	4	20
Dichlorodifluoromethane (Freon 12)	20.0	22.3		ug/L		111	36 - 131	1	20
1,1-Dichloroethane	20.0	21.9		ug/L		109	81 - 120	3	20
1,2-Dichloroethane	20.0	20.0		ug/L		100	82 - 116	0	20
1,1-Dichloroethene	20.0	21.3		ug/L		107	83 - 120	2	20
cis-1,2-Dichloroethene	20.0	22.6		ug/L		113	81 - 124	9	20
trans-1,2-Dichloroethene	20.0	21.2		ug/L		106	81 - 127	1	20
1,2-Dichloropropane	20.0	22.6		ug/L		113	76 - 132	0	20
1,3-Dichloropropane	20.0	23.3		ug/L		117	74 - 122	3	20
2,2-Dichloropropane	20.0	20.3		ug/L		101	77 - 130	2	20
1,1-Dichloropropene	20.0	21.2		ug/L		106	81 - 115	3	20
cis-1,3-Dichloropropene	20.0	22.3		ug/L		111	74 - 129	3	20
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	78 - 126	2	20
Ethylbenzene	20.0	21.8		ug/L		109	89 - 117	2	20
Hexachlorobutadiene	20.0	18.4		ug/L		92	77 - 118	4	20
2-Hexanone (MBK)	20.0	13.8		ug/L		69	37 - 123	5	20
Isopropylbenzene	20.0	21.5		ug/L		108	83 - 117	1	20
4-Isopropyltoluene	20.0	20.6		ug/L		103	83 - 124	2	20
Methyl tert-butyl ether	20.0	22.0		ug/L		110	70 - 126	4	20
4-Methyl-2-pentanone (MIBK)	20.0	18.8		ug/L		94	59 - 118	0	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32421/5

Matrix: Water

Analysis Batch: 32421

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 Limit
Methylene Chloride	20.0	20.0		ug/L		100	75 - 121	2	20
Naphthalene	20.0	21.5		ug/L		107	67 - 123	3	20
N-Propylbenzene	20.0	22.8		ug/L		114	84 - 128	0	20
Styrene	20.0	21.3		ug/L		107	78 - 127	0	20
1,1,1,2-Tetrachloroethane	20.0	18.3		ug/L		92	91 - 118	1	20
1,1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	77 - 129	2	20
Tetrachloroethene	20.0	19.7		ug/L		99	85 - 116	2	20
Toluene	20.0	21.1		ug/L		105	88 - 109	1	20
1,2,3-Trichlorobenzene	20.0	22.0		ug/L		110	67 - 134	3	20
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	78 - 133	1	20
1,3,5-Trichlorobenzene	20.0	20.0		ug/L		100	77 - 127	2	20
1,1,1-Trichloroethane	20.0	19.3		ug/L		96	83 - 124	0	20
1,1,2-Trichloroethane	20.0	21.2		ug/L		106	84 - 132	1	20
Trichloroethene	20.0	20.6		ug/L		103	74 - 118	2	20
Trichlorofluoromethane (Freon 11)	20.0	18.3		ug/L		91	82 - 126	1	20
1,2,3-Trichloropropane	20.0	21.4		ug/L		107	77 - 124	4	20
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	89 - 126	0	20
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	89 - 125	0	20
Vinyl chloride	20.0	24.4		ug/L		122	62 - 130	1	20
m,p-Xylene	20.0	20.8		ug/L		104	85 - 123	2	20
o-Xylene	20.0	20.5		ug/L		103	85 - 119	2	20
Tetrahydrofuran	20.0	21.2		ug/L		106	60 - 133	5	20
Ethyl ether	20.0	23.7		ug/L		118	69 - 122	4	20
Tert-amyl methyl ether	20.0	21.6		ug/L		108	50 - 140	1	20
Ethyl tert-butyl ether	20.0	22.2		ug/L		111	60 - 131	4	20
di-Isopropyl ether	20.0	23.3		ug/L		116	67 - 125	2	20
tert-Butanol	200	223		ug/L		112	50 - 169	1	20
1,4-Dioxane	200	246		ug/L		123	28 - 150	4	20
trans-1,4-Dichloro-2-butene	20.0	23.6		ug/L		118	48 - 153	1	20
Ethanol	400	469		ug/L		117	47 - 170	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: MB 620-32470/3-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32470

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Acetone	ND		500	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Acrylonitrile	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Benzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Bromobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32470/3-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32470

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Bromodichloromethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Bromoform	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Bromomethane	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
2-Butanone (MEK)	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
n-Butylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
sec-Butylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
tert-Butylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Carbon disulfide	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Carbon tetrachloride	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Chlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Chloroethane	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Chloroform	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Chloromethane	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
2-Chlorotoluene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
4-Chlorotoluene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Dibromochloromethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Dibromomethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2-Dichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,3-Dichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,4-Dichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1-Dichloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2-Dichloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1-Dichloroethene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2-Dichloropropane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,3-Dichloropropane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
2,2-Dichloropropane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1-Dichloropropene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
cis-1,3-Dichloropropene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Ethylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Hexachlorobutadiene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
2-Hexanone (MBK)	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Isopropylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
4-Isopropyltoluene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Methyl tert-butyl ether	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Methylene Chloride	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Naphthalene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
N-Propylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Styrene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Tetrachloroethene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: MB 620-32470/3-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32470

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1,1-Trichloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,1,2-Trichloroethane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Trichloroethene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2,3-Trichloropropane	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Vinyl chloride	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
m,p-Xylene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
o-Xylene	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Tetrahydrofuran	ND		100	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Ethyl ether	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Tert-amyl methyl ether	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Ethyl tert-butyl ether	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
di-Isopropyl ether	ND		50	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
tert-Butanol	ND		1000	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
1,4-Dioxane	ND		1000	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		03/06/24 09:00	03/06/24 11:39	1
Ethanol	ND		10000	ug/Kg		03/06/24 09:00	03/06/24 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/06/24 09:00	03/06/24 11:39	1
Toluene-d8 (Surr)	101		70 - 130	03/06/24 09:00	03/06/24 11:39	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	03/06/24 09:00	03/06/24 11:39	1
Dibromofluoromethane (Surr)	94		70 - 130	03/06/24 09:00	03/06/24 11:39	1

Lab Sample ID: LCS 620-32470/1-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	914		ug/Kg		91	91 - 125
Acetone	1000	1020		ug/Kg		102	47 - 157
Acrylonitrile	1000	1300	*+	ug/Kg		130	79 - 129
Benzene	1000	1160		ug/Kg		116	88 - 130
Bromobenzene	1000	871		ug/Kg		87	81 - 125
Bromochloromethane	1000	961		ug/Kg		96	85 - 139
Bromodichloromethane	1000	990		ug/Kg		99	84 - 134
Bromoform	1000	891		ug/Kg		89	83 - 131
Bromomethane	1000	847		ug/Kg		85	63 - 157
2-Butanone (MEK)	1000	1050		ug/Kg		105	58 - 161
n-Butylbenzene	1000	1080		ug/Kg		108	83 - 137
sec-Butylbenzene	1000	1000		ug/Kg		100	79 - 131
tert-Butylbenzene	1000	927		ug/Kg		93	82 - 131

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32470/1-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	1000	1060		ug/Kg		106	82 - 135
Carbon tetrachloride	1000	917		ug/Kg		92	77 - 139
Chlorobenzene	1000	963		ug/Kg		96	85 - 121
Chloroethane	1000	804		ug/Kg		80	61 - 156
Chloroform	1000	1060		ug/Kg		106	89 - 123
Chloromethane	1000	1350	*+	ug/Kg		135	81 - 130
2-Chlorotoluene	1000	1000		ug/Kg		100	90 - 117
4-Chlorotoluene	1000	964		ug/Kg		96	88 - 121
1,2-Dibromo-3-Chloropropane	1000	1050		ug/Kg		105	75 - 142
Dibromochloromethane	1000	879		ug/Kg		88	85 - 131
1,2-Dibromoethane (EDB)	1000	972		ug/Kg		97	85 - 133
Dibromomethane	1000	969		ug/Kg		97	90 - 128
1,2-Dichlorobenzene	1000	1020		ug/Kg		102	88 - 128
1,3-Dichlorobenzene	1000	1030		ug/Kg		103	78 - 133
1,4-Dichlorobenzene	1000	928		ug/Kg		93	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	1100		ug/Kg		110	55 - 159
1,1-Dichloroethane	1000	1120		ug/Kg		112	89 - 129
1,2-Dichloroethane	1000	1040		ug/Kg		104	82 - 137
1,1-Dichloroethene	1000	960		ug/Kg		96	82 - 138
cis-1,2-Dichloroethene	1000	999		ug/Kg		100	79 - 133
trans-1,2-Dichloroethene	1000	1020		ug/Kg		102	81 - 137
1,2-Dichloropropane	1000	1160		ug/Kg		116	89 - 128
1,3-Dichloropropane	1000	1120		ug/Kg		112	86 - 133
2,2-Dichloropropane	1000	1020		ug/Kg		102	91 - 131
1,1-Dichloropropene	1000	1060		ug/Kg		106	75 - 137
cis-1,3-Dichloropropene	1000	1050		ug/Kg		105	84 - 122
trans-1,3-Dichloropropene	1000	1080		ug/Kg		108	90 - 121
Ethylbenzene	1000	1100		ug/Kg		110	89 - 126
Hexachlorobutadiene	1000	843		ug/Kg		84	74 - 131
2-Hexanone (MBK)	1000	916		ug/Kg		92	41 - 167
Isopropylbenzene	1000	984		ug/Kg		98	88 - 125
4-Isopropyltoluene	1000	997		ug/Kg		100	86 - 128
Methyl tert-butyl ether	1000	1020		ug/Kg		102	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	992		ug/Kg		99	80 - 135
Methylene Chloride	1000	945		ug/Kg		94	87 - 119
Naphthalene	1000	1010		ug/Kg		101	60 - 145
N-Propylbenzene	1000	1130		ug/Kg		113	87 - 120
Styrene	1000	1030		ug/Kg		103	88 - 125
1,1,1,2-Tetrachloroethane	1000	903		ug/Kg		90	81 - 128
1,1,1,2,2-Tetrachloroethane	1000	1020		ug/Kg		102	88 - 126
Tetrachloroethene	1000	864		ug/Kg		86	81 - 124
Toluene	1000	1030		ug/Kg		103	84 - 124
1,2,3-Trichlorobenzene	1000	999		ug/Kg		100	68 - 145
1,2,4-Trichlorobenzene	1000	916		ug/Kg		92	57 - 141
1,3,5-Trichlorobenzene	1000	953		ug/Kg		95	70 - 137
1,1,1-Trichloroethane	1000	963		ug/Kg		96	88 - 131
1,1,2-Trichloroethane	1000	1040		ug/Kg		104	91 - 129
Trichloroethene	1000	1020		ug/Kg		102	88 - 131

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCS 620-32470/1-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane (Freon 11)	1000	934		ug/Kg		93	86 - 130
1,2,3-Trichloropropane	1000	1090		ug/Kg		109	92 - 126
1,2,4-Trimethylbenzene	1000	1000		ug/Kg		100	87 - 126
1,3,5-Trimethylbenzene	1000	989		ug/Kg		99	90 - 125
Vinyl chloride	1000	1520	*+	ug/Kg		152	73 - 145
m,p-Xylene	1000	1010		ug/Kg		101	83 - 122
o-Xylene	1000	988		ug/Kg		99	87 - 122
Tetrahydrofuran	1000	1090		ug/Kg		109	81 - 134
Ethyl ether	1000	1160		ug/Kg		116	84 - 144
Tert-amyl methyl ether	1000	1050		ug/Kg		105	69 - 151
Ethyl tert-butyl ether	1000	1080		ug/Kg		108	75 - 128
di-Isopropyl ether	1000	1210		ug/Kg		121	82 - 131
tert-Butanol	10000	10600		ug/Kg		106	85 - 148
1,4-Dioxane	10000	10400		ug/Kg		104	10 - 178
trans-1,4-Dichloro-2-butene	1000	1250		ug/Kg		125	74 - 151
Ethanol	20000	26600		ug/Kg		133	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Lab Sample ID: LCSD 620-32470/2-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	883	*-	ug/Kg		88	91 - 125	3	30
Acetone	1000	990		ug/Kg		99	47 - 157	3	30
Acrylonitrile	1000	1290		ug/Kg		129	79 - 129	1	30
Benzene	1000	1140		ug/Kg		114	88 - 130	2	30
Bromobenzene	1000	871		ug/Kg		87	81 - 125	0	30
Bromochloromethane	1000	935		ug/Kg		94	85 - 139	3	30
Bromodichloromethane	1000	979		ug/Kg		98	84 - 134	1	30
Bromoform	1000	893		ug/Kg		89	83 - 131	0	30
Bromomethane	1000	767		ug/Kg		77	63 - 157	10	30
2-Butanone (MEK)	1000	1150		ug/Kg		115	58 - 161	10	30
n-Butylbenzene	1000	1040		ug/Kg		104	83 - 137	3	30
sec-Butylbenzene	1000	974		ug/Kg		97	79 - 131	3	30
tert-Butylbenzene	1000	920		ug/Kg		92	82 - 131	1	30
Carbon disulfide	1000	1020		ug/Kg		102	82 - 135	4	30
Carbon tetrachloride	1000	891		ug/Kg		89	77 - 139	3	30
Chlorobenzene	1000	930		ug/Kg		93	85 - 121	3	30
Chloroethane	1000	781		ug/Kg		78	61 - 156	3	30
Chloroform	1000	1040		ug/Kg		104	89 - 123	2	30
Chloromethane	1000	1350	*+	ug/Kg		135	81 - 130	0	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32470/2-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorotoluene	1000	999		ug/Kg		100	90 - 117	1	30
4-Chlorotoluene	1000	948		ug/Kg		95	88 - 121	2	30
1,2-Dibromo-3-Chloropropane	1000	1090		ug/Kg		109	75 - 142	4	30
Dibromochloromethane	1000	875		ug/Kg		87	85 - 131	0	30
1,2-Dibromoethane (EDB)	1000	990		ug/Kg		99	85 - 133	2	30
Dibromomethane	1000	962		ug/Kg		96	90 - 128	1	30
1,2-Dichlorobenzene	1000	1000		ug/Kg		100	88 - 128	2	30
1,3-Dichlorobenzene	1000	1000		ug/Kg		100	78 - 133	3	30
1,4-Dichlorobenzene	1000	907		ug/Kg		91	88 - 121	2	30
Dichlorodifluoromethane (Freon 12)	1000	1070		ug/Kg		107	55 - 159	3	30
1,1-Dichloroethane	1000	1090		ug/Kg		109	89 - 129	2	30
1,2-Dichloroethane	1000	1020		ug/Kg		102	82 - 137	2	30
1,1-Dichloroethene	1000	965		ug/Kg		96	82 - 138	1	30
cis-1,2-Dichloroethene	1000	1010		ug/Kg		101	79 - 133	1	30
trans-1,2-Dichloroethene	1000	982		ug/Kg		98	81 - 137	3	30
1,2-Dichloropropane	1000	1140		ug/Kg		114	89 - 128	1	30
1,3-Dichloropropane	1000	1140		ug/Kg		114	86 - 133	2	30
2,2-Dichloropropane	1000	986		ug/Kg		99	91 - 131	3	30
1,1-Dichloropropene	1000	1010		ug/Kg		101	75 - 137	5	30
cis-1,3-Dichloropropene	1000	1070		ug/Kg		107	84 - 122	2	30
trans-1,3-Dichloropropene	1000	1090		ug/Kg		109	90 - 121	1	30
Ethylbenzene	1000	1080		ug/Kg		108	89 - 126	2	30
Hexachlorobutadiene	1000	804		ug/Kg		80	74 - 131	5	30
2-Hexanone (MBK)	1000	894		ug/Kg		89	41 - 167	2	30
Isopropylbenzene	1000	973		ug/Kg		97	88 - 125	1	30
4-Isopropyltoluene	1000	974		ug/Kg		97	86 - 128	2	30
Methyl tert-butyl ether	1000	1040		ug/Kg		104	74 - 144	2	30
4-Methyl-2-pentanone (MIBK)	1000	1030		ug/Kg		103	80 - 135	4	30
Methylene Chloride	1000	947		ug/Kg		95	87 - 119	0	30
Naphthalene	1000	1040		ug/Kg		104	60 - 145	3	30
N-Propylbenzene	1000	1100		ug/Kg		110	87 - 120	2	30
Styrene	1000	1020		ug/Kg		102	88 - 125	1	30
1,1,1,2-Tetrachloroethane	1000	882		ug/Kg		88	81 - 128	2	30
1,1,2,2-Tetrachloroethane	1000	1010		ug/Kg		101	88 - 126	1	30
Tetrachloroethene	1000	858		ug/Kg		86	81 - 124	1	30
Toluene	1000	1000		ug/Kg		100	84 - 124	3	30
1,2,3-Trichlorobenzene	1000	1000		ug/Kg		100	68 - 145	0	30
1,2,4-Trichlorobenzene	1000	900		ug/Kg		90	57 - 141	2	30
1,3,5-Trichlorobenzene	1000	920		ug/Kg		92	70 - 137	3	30
1,1,1-Trichloroethane	1000	947		ug/Kg		95	88 - 131	2	30
1,1,2-Trichloroethane	1000	1020		ug/Kg		102	91 - 129	2	30
Trichloroethene	1000	979		ug/Kg		98	88 - 131	4	30
Trichlorofluoromethane (Freon 11)	1000	912		ug/Kg		91	86 - 130	2	30
1,2,3-Trichloropropane	1000	1090		ug/Kg		109	92 - 126	1	30
1,2,4-Trimethylbenzene	1000	980		ug/Kg		98	87 - 126	3	30
1,3,5-Trimethylbenzene	1000	972		ug/Kg		97	90 - 125	2	30
Vinyl chloride	1000	1500	*+	ug/Kg		150	73 - 145	2	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

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

Lab Sample ID: LCSD 620-32470/2-A

Matrix: Solid

Analysis Batch: 32446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylene	1000	997		ug/Kg		100	83 - 122	2	30
o-Xylene	1000	967		ug/Kg		97	87 - 122	2	30
Tetrahydrofuran	1000	1150		ug/Kg		115	81 - 134	5	30
Ethyl ether	1000	1140		ug/Kg		114	84 - 144	1	30
Tert-amyl methyl ether	1000	1050		ug/Kg		105	69 - 151	0	30
Ethyl tert-butyl ether	1000	1090		ug/Kg		109	75 - 128	1	30
di-Isopropyl ether	1000	1210		ug/Kg		121	82 - 131	1	30
tert-Butanol	10000	11600		ug/Kg		116	85 - 148	9	30
1,4-Dioxane	10000	10800		ug/Kg		108	10 - 178	4	30
trans-1,4-Dichloro-2-butene	1000	1290		ug/Kg		129	74 - 151	3	30
Ethanol	20000	28500	*+	ug/Kg		143	83 - 135	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

GC/MS VOA

Pre Prep Batch: 32286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-11	EA6/1R Day 15, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17101-12	EA6/1R Day 15, 1x	Total/NA	Solid	Frozen Preserve	
620-17101-13	EA6/1R Day 15, 2x	Total/NA	Solid	Frozen Preserve	
620-17101-14	EA6/1R Day 15, 3x	Total/NA	Solid	Frozen Preserve	
620-17101-15	EA6/1R Day 15, ctrl	Total/NA	Solid	Frozen Preserve	
620-17101-16	4R Day 15, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17101-17	4R Day 15, 1x	Total/NA	Solid	Frozen Preserve	
620-17101-18	4R Day 15, 2x	Total/NA	Solid	Frozen Preserve	
620-17101-19	4R Day 15, 3x	Total/NA	Solid	Frozen Preserve	
620-17101-20	4R Day 15, ctrl	Total/NA	Solid	Frozen Preserve	
620-17101-21	EA6/1R Day 15b, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17101-22	EA6/1R Day 15b, 1x	Total/NA	Solid	Frozen Preserve	
620-17101-23	EA6/1R Day 15b, 2x	Total/NA	Solid	Frozen Preserve	
620-17101-24	EA6/1R Day 15b, 3x	Total/NA	Solid	Frozen Preserve	
620-17101-25	EA6/1R Day 15b, ctrl	Total/NA	Solid	Frozen Preserve	
620-17101-26	4R Day 15, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17101-27	4R Day 15, 1x	Total/NA	Solid	Frozen Preserve	
620-17101-28	4R Day 15, 2x	Total/NA	Solid	Frozen Preserve	
620-17101-29	4R Day 15, 3x	Total/NA	Solid	Frozen Preserve	
620-17101-30	4R Day 15, ctrl	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 32316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-11	EA6/1R Day 15, 0.5x	Total/NA	Solid	8260C	32343
620-17101-12	EA6/1R Day 15, 1x	Total/NA	Solid	8260C	32343
620-17101-13	EA6/1R Day 15, 2x	Total/NA	Solid	8260C	32343
620-17101-14	EA6/1R Day 15, 3x	Total/NA	Solid	8260C	32343
620-17101-15	EA6/1R Day 15, ctrl	Total/NA	Solid	8260C	32343
620-17101-16	4R Day 15, 0.5x	Total/NA	Solid	8260C	32343
620-17101-17	4R Day 15, 1x	Total/NA	Solid	8260C	32343
620-17101-18	4R Day 15, 2x	Total/NA	Solid	8260C	32343
620-17101-19	4R Day 15, 3x	Total/NA	Solid	8260C	32343
620-17101-20	4R Day 15, ctrl	Total/NA	Solid	8260C	32343
620-17101-21	EA6/1R Day 15b, 0.5x	Total/NA	Solid	8260C	32343
620-17101-22	EA6/1R Day 15b, 1x	Total/NA	Solid	8260C	32343
620-17101-23	EA6/1R Day 15b, 2x	Total/NA	Solid	8260C	32343

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

GC/MS VOA (Continued)

Analysis Batch: 32316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-24	EA6/1R Day 15b, 3x	Total/NA	Solid	8260C	32343
620-17101-25	EA6/1R Day 15b, ctrl	Total/NA	Solid	8260C	32343
MB 620-32343/3-A	Method Blank	Total/NA	Solid	8260C	32343
LCS 620-32343/1-A	Lab Control Sample	Total/NA	Solid	8260C	32343
LCSD 620-32343/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32343

Prep Batch: 32343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-11	EA6/1R Day 15, 0.5x	Total/NA	Solid	5035	32286
620-17101-12	EA6/1R Day 15, 1x	Total/NA	Solid	5035	32286
620-17101-13	EA6/1R Day 15, 2x	Total/NA	Solid	5035	32286
620-17101-14	EA6/1R Day 15, 3x	Total/NA	Solid	5035	32286
620-17101-15	EA6/1R Day 15, ctrl	Total/NA	Solid	5035	32286
620-17101-16	4R Day 15, 0.5x	Total/NA	Solid	5035	32286
620-17101-17	4R Day 15, 1x	Total/NA	Solid	5035	32286
620-17101-18	4R Day 15, 2x	Total/NA	Solid	5035	32286
620-17101-19	4R Day 15, 3x	Total/NA	Solid	5035	32286
620-17101-20	4R Day 15, ctrl	Total/NA	Solid	5035	32286
620-17101-21	EA6/1R Day 15b, 0.5x	Total/NA	Solid	5035	32286
620-17101-22	EA6/1R Day 15b, 1x	Total/NA	Solid	5035	32286
620-17101-23	EA6/1R Day 15b, 2x	Total/NA	Solid	5035	32286
620-17101-24	EA6/1R Day 15b, 3x	Total/NA	Solid	5035	32286
620-17101-25	EA6/1R Day 15b, ctrl	Total/NA	Solid	5035	32286
MB 620-32343/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-32343/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32343/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-16 - ME	4R Day 15, 0.5x	Total/NA	Solid	8260C	32387
620-17101-17 - ME	4R Day 15, 1x	Total/NA	Solid	8260C	32387
MB 620-32387/3-A	Method Blank	Total/NA	Solid	8260C	32387
LCS 620-32387/1-A	Lab Control Sample	Total/NA	Solid	8260C	32387
LCSD 620-32387/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32387

Analysis Batch: 32362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-26	4R Day 15, 0.5x	Total/NA	Solid	8260C	32389
620-17101-27	4R Day 15, 1x	Total/NA	Solid	8260C	32389
620-17101-28	4R Day 15, 2x	Total/NA	Solid	8260C	32389
620-17101-29	4R Day 15, 3x	Total/NA	Solid	8260C	32389
620-17101-30	4R Day 15, ctrl	Total/NA	Solid	8260C	32389
MB 620-32389/3-A	Method Blank	Total/NA	Solid	8260C	32389
LCS 620-32389/1-A	Lab Control Sample	Total/NA	Solid	8260C	32389
LCSD 620-32389/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32389

Prep Batch: 32387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-16 - ME	4R Day 15, 0.5x	Total/NA	Solid	5035	
620-17101-17 - ME	4R Day 15, 1x	Total/NA	Solid	5035	
MB 620-32387/3-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

GC/MS VOA (Continued)

Prep Batch: 32387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-32387/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32387/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 32389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-26	4R Day 15, 0.5x	Total/NA	Solid	5035	32286
620-17101-27	4R Day 15, 1x	Total/NA	Solid	5035	32286
620-17101-28	4R Day 15, 2x	Total/NA	Solid	5035	32286
620-17101-29	4R Day 15, 3x	Total/NA	Solid	5035	32286
620-17101-30	4R Day 15, ctrl	Total/NA	Solid	5035	32286
MB 620-32389/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-32389/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32389/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-1	EA6/1R Day 15, 0.5x	Total/NA	Water	8260C	
620-17101-2	EA6/1R Day 15, 1x	Total/NA	Water	8260C	
620-17101-4	EA6/1R Day 15, 3x	Total/NA	Water	8260C	
620-17101-5	EA6/1R Day 15, ctrl	Total/NA	Water	8260C	
620-17101-6 - DL	4R Day 15, 0.5x	Total/NA	Water	8260C	
620-17101-6	4R Day 15, 0.5x	Total/NA	Water	8260C	
620-17101-7 - DL	4R Day 15, 1x	Total/NA	Water	8260C	
620-17101-7	4R Day 15, 1x	Total/NA	Water	8260C	
620-17101-8	4R Day 15, 2x	Total/NA	Water	8260C	
620-17101-9	4R Day 15, 3x	Total/NA	Water	8260C	
620-17101-10	4R Day 15,ctrl	Total/NA	Water	8260C	
MB 620-32402/7	Method Blank	Total/NA	Water	8260C	
LCS 620-32402/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-32402/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 32421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-2 - DL	EA6/1R Day 15, 1x	Total/NA	Water	8260C	
620-17101-3	EA6/1R Day 15, 2x	Total/NA	Water	8260C	
620-17101-8 - DL	4R Day 15, 2x	Total/NA	Water	8260C	
MB 620-32421/7	Method Blank	Total/NA	Water	8260C	
LCS 620-32421/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-32421/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 32446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-26 - ME	4R Day 15, 0.5x	Total/NA	Solid	8260C	32470
620-17101-27 - ME	4R Day 15, 1x	Total/NA	Solid	8260C	32470
MB 620-32470/3-A	Method Blank	Total/NA	Solid	8260C	32470
LCS 620-32470/1-A	Lab Control Sample	Total/NA	Solid	8260C	32470
LCSD 620-32470/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32470

Prep Batch: 32470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-26 - ME	4R Day 15, 0.5x	Total/NA	Solid	5035	

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

GC/MS VOA (Continued)

Prep Batch: 32470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-27 - ME	4R Day 15, 1x	Total/NA	Solid	5035	
MB 620-32470/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-32470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 32297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17101-11	EA6/1R Day 15, 0.5x	Total/NA	Solid	Moisture	
620-17101-12	EA6/1R Day 15, 1x	Total/NA	Solid	Moisture	
620-17101-13	EA6/1R Day 15, 2x	Total/NA	Solid	Moisture	
620-17101-14	EA6/1R Day 15, 3x	Total/NA	Solid	Moisture	
620-17101-15	EA6/1R Day 15, ctrl	Total/NA	Solid	Moisture	
620-17101-16	4R Day 15, 0.5x	Total/NA	Solid	Moisture	
620-17101-17	4R Day 15, 1x	Total/NA	Solid	Moisture	
620-17101-18	4R Day 15, 2x	Total/NA	Solid	Moisture	
620-17101-19	4R Day 15, 3x	Total/NA	Solid	Moisture	
620-17101-20	4R Day 15, ctrl	Total/NA	Solid	Moisture	
620-17101-21	EA6/1R Day 15b, 0.5x	Total/NA	Solid	Moisture	
620-17101-22	EA6/1R Day 15b, 1x	Total/NA	Solid	Moisture	
620-17101-23	EA6/1R Day 15b, 2x	Total/NA	Solid	Moisture	
620-17101-24	EA6/1R Day 15b, 3x	Total/NA	Solid	Moisture	
620-17101-25	EA6/1R Day 15b, ctrl	Total/NA	Solid	Moisture	
620-17101-26	4R Day 15, 0.5x	Total/NA	Solid	Moisture	
620-17101-27	4R Day 15, 1x	Total/NA	Solid	Moisture	
620-17101-28	4R Day 15, 2x	Total/NA	Solid	Moisture	
620-17101-29	4R Day 15, 3x	Total/NA	Solid	Moisture	
620-17101-30	4R Day 15, ctrl	Total/NA	Solid	Moisture	
MB 620-32297/31	Method Blank	Total/NA	Solid	Moisture	
620-17101-15 DU	EA6/1R Day 15, ctrl	Total/NA	Solid	Moisture	
620-17101-25 DU	EA6/1R Day 15b, ctrl	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-1

Date Collected: 02/26/24 08:00

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32402	CLR	EET NE	03/05/24 02:36

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-2

Date Collected: 02/26/24 08:10

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 00:29
Total/NA	Analysis	8260C	DL	5	32421	CLR	EET NE	03/05/24 13:22

Client Sample ID: EA6/1R Day 15, 2x

Lab Sample ID: 620-17101-3

Date Collected: 02/26/24 08:20

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32421	CLR	EET NE	03/05/24 13:48

Client Sample ID: EA6/1R Day 15, 3x

Lab Sample ID: 620-17101-4

Date Collected: 02/26/24 08:30

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 00:54

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-5

Date Collected: 02/26/24 08:40

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/04/24 23:37

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-6

Date Collected: 02/26/24 08:50

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	20	32402	CLR	EET NE	03/05/24 03:26
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 04:40

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-7

Date Collected: 02/26/24 09:00

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C	DL	10	32402	CLR	EET NE	03/05/24 03:01
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 04:15

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-8

Date Collected: 02/26/24 09:10

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 01:44
Total/NA	Analysis	8260C	DL	10	32421	CLR	EET NE	03/05/24 14:13

Client Sample ID: 4R Day 15, 3x

Lab Sample ID: 620-17101-9

Date Collected: 02/26/24 09:20

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 02:10

Client Sample ID: 4R Day 15,ctrl

Lab Sample ID: 620-17101-10

Date Collected: 02/26/24 09:30

Matrix: Water

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32402	CLR	EET NE	03/05/24 00:03

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Date Collected: 02/26/24 08:02

Matrix: Solid

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15, 0.5x

Lab Sample ID: 620-17101-11

Date Collected: 02/26/24 08:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 15:37

Client Sample ID: EA6/1R Day 15, 1x

Lab Sample ID: 620-17101-12

Date Collected: 02/26/24 08:12

Matrix: Solid

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, 1x
Date Collected: 02/26/24 08:12
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-12
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 16:02

Client Sample ID: EA6/1R Day 15, 2x
Date Collected: 02/26/24 08:22
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15, 2x
Date Collected: 02/26/24 08:22
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-13
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 16:27

Client Sample ID: EA6/1R Day 15, 3x
Date Collected: 02/26/24 08:32
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15, 3x
Date Collected: 02/26/24 08:32
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-14
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 16:52

Client Sample ID: EA6/1R Day 15, ctrl
Date Collected: 02/26/24 08:42
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15, ctrl

Lab Sample ID: 620-17101-15

Date Collected: 02/26/24 08:42

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 17:17

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 0.5x

Lab Sample ID: 620-17101-16

Date Collected: 02/26/24 08:52

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 17:42
Total/NA	Prep	5035	ME		32387	CLR	EET NE	03/04/24 11:47
Total/NA	Analysis	8260C	ME	1	32359	CLR	EET NE	03/04/24 15:06

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 1x

Lab Sample ID: 620-17101-17

Date Collected: 02/26/24 09:02

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 18:07
Total/NA	Prep	5035	ME		32387	CLR	EET NE	03/04/24 11:47
Total/NA	Analysis	8260C	ME	1	32359	CLR	EET NE	03/04/24 15:31

Client Sample ID: 4R Day 15, 2x

Lab Sample ID: 620-17101-18

Date Collected: 02/26/24 09:12

Matrix: Solid

Date Received: 02/28/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 2x

Date Collected: 02/26/24 09:12

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-18

Matrix: Solid

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 18:32

Client Sample ID: 4R Day 15, 3x

Date Collected: 02/26/24 09:22

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 3x

Date Collected: 02/26/24 09:22

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-19

Matrix: Solid

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 18:57

Client Sample ID: 4R Day 15, ctrl

Date Collected: 02/26/24 09:32

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, ctrl

Date Collected: 02/26/24 09:32

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-20

Matrix: Solid

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 19:22

Client Sample ID: EA6/1R Day 15b, 0.5x

Date Collected: 02/26/24 08:04

Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 0.5x
Date Collected: 02/26/24 08:04
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-21
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 19:47

Client Sample ID: EA6/1R Day 15b, 1x
Date Collected: 02/26/24 08:14
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15b, 1x
Date Collected: 02/26/24 08:14
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-22
Matrix: Solid
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 20:12

Client Sample ID: EA6/1R Day 15b, 2x
Date Collected: 02/26/24 08:24
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15b, 2x
Date Collected: 02/26/24 08:24
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-23
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 20:37

Client Sample ID: EA6/1R Day 15b, 3x
Date Collected: 02/26/24 08:34
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: EA6/1R Day 15b, 3x
Date Collected: 02/26/24 08:34
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-24
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 21:02

Client Sample ID: EA6/1R Day 15b, ctrl
Date Collected: 02/26/24 08:44
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: EA6/1R Day 15b, ctrl
Date Collected: 02/26/24 08:44
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-25
Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32343	CLR	EET NE	03/01/24 08:00
Total/NA	Analysis	8260C		1	32316	CLR	EET NE	03/01/24 21:27

Client Sample ID: 4R Day 15, 0.5x
Date Collected: 02/26/24 08:54
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 0.5x
Date Collected: 02/26/24 08:54
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-26
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32389	CLR	EET NE	03/04/24 12:20
Total/NA	Analysis	8260C		1	32362	CLR	EET NE	03/04/24 13:20
Total/NA	Prep	5035	ME		32470	CLR	EET NE	03/06/24 09:00
Total/NA	Analysis	8260C	ME	1	32446	CLR	EET NE	03/06/24 12:20

Client Sample ID: 4R Day 15, 1x
Date Collected: 02/26/24 09:04
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, 1x
Date Collected: 02/26/24 09:04
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-27
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32389	CLR	EET NE	03/04/24 12:20
Total/NA	Analysis	8260C		1	32362	CLR	EET NE	03/04/24 13:45
Total/NA	Prep	5035	ME		32470	CLR	EET NE	03/06/24 09:00
Total/NA	Analysis	8260C	ME	1	32446	CLR	EET NE	03/06/24 12:46

Client Sample ID: 4R Day 15, 2x
Date Collected: 02/26/24 09:14
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 2x
Date Collected: 02/26/24 09:14
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-28
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32389	CLR	EET NE	03/04/24 12:20
Total/NA	Analysis	8260C		1	32362	CLR	EET NE	03/04/24 14:10

Client Sample ID: 4R Day 15, 3x
Date Collected: 02/26/24 09:24
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Client Sample ID: 4R Day 15, 3x
Date Collected: 02/26/24 09:24
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-29
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32389	CLR	EET NE	03/04/24 12:20
Total/NA	Analysis	8260C		1	32362	CLR	EET NE	03/04/24 14:35

Client Sample ID: 4R Day 15, ctrl
Date Collected: 02/26/24 09:34
Date Received: 02/28/24 17:16

Lab Sample ID: 620-17101-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32297	JPC	EET NE	02/29/24 13:55

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Client Sample ID: 4R Day 15, ctrl

Lab Sample ID: 620-17101-30

Date Collected: 02/26/24 09:34

Matrix: Solid

Date Received: 02/28/24 17:16

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32286	KFS	EET NE	02/28/24 19:11
Total/NA	Prep	5035			32389	CLR	EET NE	03/04/24 12:20
Total/NA	Analysis	8260C		1	32362	CLR	EET NE	03/04/24 15:00

Laboratory References:
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	Tetrachloroethene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins New England

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET NE
Moisture	Percent Moisture	EPA	EET NE
5030C	Purge and Trap	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17101-1	EA6/1R Day 15, 0.5x	Water	02/26/24 08:00	02/28/24 17:16
620-17101-2	EA6/1R Day 15, 1x	Water	02/26/24 08:10	02/28/24 17:16
620-17101-3	EA6/1R Day 15, 2x	Water	02/26/24 08:20	02/28/24 17:16
620-17101-4	EA6/1R Day 15, 3x	Water	02/26/24 08:30	02/28/24 17:16
620-17101-5	EA6/1R Day 15, ctrl	Water	02/26/24 08:40	02/28/24 17:16
620-17101-6	4R Day 15, 0.5x	Water	02/26/24 08:50	02/28/24 17:16
620-17101-7	4R Day 15, 1x	Water	02/26/24 09:00	02/28/24 17:16
620-17101-8	4R Day 15, 2x	Water	02/26/24 09:10	02/28/24 17:16
620-17101-9	4R Day 15, 3x	Water	02/26/24 09:20	02/28/24 17:16
620-17101-10	4R Day 15,ctrl	Water	02/26/24 09:30	02/28/24 17:16
620-17101-11	EA6/1R Day 15, 0.5x	Solid	02/26/24 08:02	02/28/24 17:16
620-17101-12	EA6/1R Day 15, 1x	Solid	02/26/24 08:12	02/28/24 17:16
620-17101-13	EA6/1R Day 15, 2x	Solid	02/26/24 08:22	02/28/24 17:16
620-17101-14	EA6/1R Day 15, 3x	Solid	02/26/24 08:32	02/28/24 17:16
620-17101-15	EA6/1R Day 15, ctrl	Solid	02/26/24 08:42	02/28/24 17:16
620-17101-16	4R Day 15, 0.5x	Solid	02/26/24 08:52	02/28/24 17:16
620-17101-17	4R Day 15, 1x	Solid	02/26/24 09:02	02/28/24 17:16
620-17101-18	4R Day 15, 2x	Solid	02/26/24 09:12	02/28/24 17:16
620-17101-19	4R Day 15, 3x	Solid	02/26/24 09:22	02/28/24 17:16
620-17101-20	4R Day 15, ctrl	Solid	02/26/24 09:32	02/28/24 17:16
620-17101-21	EA6/1R Day 15b, 0.5x	Solid	02/26/24 08:04	02/28/24 17:16
620-17101-22	EA6/1R Day 15b, 1x	Solid	02/26/24 08:14	02/28/24 17:16
620-17101-23	EA6/1R Day 15b, 2x	Solid	02/26/24 08:24	02/28/24 17:16
620-17101-24	EA6/1R Day 15b, 3x	Solid	02/26/24 08:34	02/28/24 17:16
620-17101-25	EA6/1R Day 15b, ctrl	Solid	02/26/24 08:44	02/28/24 17:16
620-17101-26	4R Day 15, 0.5x	Solid	02/26/24 08:54	02/28/24 17:16
620-17101-27	4R Day 15, 1x	Solid	02/26/24 09:04	02/28/24 17:16
620-17101-28	4R Day 15, 2x	Solid	02/26/24 09:14	02/28/24 17:16
620-17101-29	4R Day 15, 3x	Solid	02/26/24 09:24	02/28/24 17:16
620-17101-30	4R Day 15, ctrl	Solid	02/26/24 09:34	02/28/24 17:16





Page 1 of 3

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CHAIN OF CUSTODY RECORD

Special Handling:

☐ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed

All TATs subject to laboratory approval

Min 24-hr notification needed for rushes

Samples disposed after 30 days unless otherwise instructed

Report To	Laurel Crawford (lcrawford@loureiro.com)	Invoice To	Accounts Payable (accountspayable@loureiro.com)
	Loureiro Engineering Associates, Inc		Loureiro Engineering Associates, Inc
	112 Corporate Drive, Unit 2		100 Northwest Drive
	Portsmouth, NH 03801		Plainville, CT 06062
Telephone #	603-778-1100		
Project Mgr	Laurel Crawford	P O No	1260
			Quote #

Project No	026EE3.01
Site Name	Zip Mini Mart Site
Location	Portsmouth
Sampler(s)	Laurel Crawford
	State NH

F =Field Filtered 7 =CH3OH 1 =Na ₂ S ₂ O ₃ 8 =NaHSO ₄ 2 =HCl 9 =Deionized Water 3 =H ₂ SO ₄ 10 =H ₃ PO ₄ 4 =HNO ₃ 11 = 5 =NaOH 12 = 6 =Ascorbic Acid	List Preservative Code below:	QA/QC Reporting Notes: * additional charges may apply

DW=Drinking Water **GW**=Groundwater **SW**=Surface Water **WW**=Waste Water
O=Oil **SO**=Soil **SL**=Sludge **A**=Indoor/Ambient Air **SG**=Soil Gas

MA DEP MCP CAM Report ⁹	☐ Yes	☐ No
CTT DPH RCP Report ⁷	☐ Yes	☐ No
☐ Standard	☐ No QC	
☐ DQA*		
☐ ASP A*	☐ ASP B*	
☐ NJ Reduced*	☐ NJ Full*	
☐ Tier II*	☐ Tier IV*	
☐ Other _____		

State-specific reporting standards

[illegible]

G= Grab		C=Compsite		Type
Lab ID:	Sample ID:	Date:	Time:	
-1	EA6/1R Day 15, 0 5x	2/26/2024	8 00 AM	
-2	EA6/1R Day 15, 1x	2/26/2024	8 10 AM	
-3	EA6/1R Day 15, 2x	2/26/2024	8 20 AM	
-4	EA6/1R Day 15, 3x	2/26/2024	8 30 AM	
-5	EA6/1R Day 15, ctrl	2/26/2024	8 40 AM	
-6	4R Day 15, 0 5x	2/26/2024	8 50 AM	
-7	4R Day 15, 1x	2/26/2024	9 00 AM	
-8	4R Day 15, 2x	2/26/2024	9 10 AM	
-9	4R Day 15, 3x	2/26/2024	9 20 AM	
-10	4R Day 15 ctrl	2/26/2024	9 30 AM	

Relinquished by:	Received by:	Date:	Time:	Temp °C
Paul C. [Signature]	[Signature]	2/28/24	12:09	Observed 0.6
	[Signature]	2/28/24	17:16	Correction Factor 40.2
				Corrected 0.8
	Sample Shipping Address:	126 Myron Street	West Springfield, MA 01089	IR ID # 6

☐ EDD format

☒ E-mail to lcrawford@loureiro.com, acdunne@loureiro.com

Condition upon receipt:

☒ Ambient	☐ Present	☐ Intact	☐ Broken
☒ Refrigerated	☐ DI VOA Frozen	☐ Soil Jar Frozen	



CHAIN OF CUSTODY RECORD

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 2 of 3

Report To <u>Laurel Crawford (lcrawford@loureiro.com)</u> <u>Loureiro Engineering Associates, Inc.</u> 112 Corporate Drive, Unit 2 Portsmouth, NH 03801 Telephone # <u>603-778-1100</u> Project Mgr <u>Laurel Crawford</u>	Invoice To <u>Accounts Payable (accountspayable@loureiro.com)</u> <u>Loureiro Engineering Associates, Inc</u> 100 Northwest Drive Plainville, CT 06062 P O No <u>1260</u> Quote # _____	Project No <u>026EE3 01</u> Site Name <u>Zip Zip Mini Mart Site</u> Location <u>Portsmouth</u> State <u>NH</u> Sampler(s) <u>Laurel Crawford</u>	MA DEP MCP CAM Report? ☐ Yes ☐ No CT DPH RCP Report? ☐ Yes ☐ No ☐ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV* ☐ Other _____ State-specific reporting standards
F=Field Filtered 1=Na ₂ S ₂ O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ SOH 8=NaHSO ₄ 9=Deionized Water 10=H ₃ PO ₄ 11= terracore kit 12= _____		List Preservative Code below: 11 _____	
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water O=Oil SO=Soil SI=Sludge A=Indoor/Ambient Air SG=Soil Gas		Check if chlorinated ☐	
X1= _____ X2= _____ X3= _____		Containers # of VOA Vials # of Clear Glass # of Plastic 8260C VOCs	
G= Grab C=Composite		Matrix Type	
Lab ID:	Sample ID:	Date:	Time:
11	EA6/1R Day 15, 0 5x	2/26/2024	8 02 AM
12	EA6/1R Day 15, 1x	2/26/2024	8 12 AM
13	EA6/1R Day 15, 2x	2/26/2024	8 22 AM
14	EA6/1R Day 15, 3x	2/26/2024	8 32 AM
15	EA6/1R Day 15, ctrl	2/26/2024	8 42 AM
16	4R Day 15, 0 5x	2/26/2024	8 52 AM
17	4R Day 15, 1x	2/26/2024	9 02 AM
18	4R Day 15, 2x	2/26/2024	9 12 AM
19	4R Day 15, 3x	2/26/2024	9 22 AM
20	4R Day 15 ctrl	2/26/2024	9 32 AM
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	
Temp °C		Time:	
Observed <u>0.6</u>		<u>2009</u>	
Corrected <u>40.3</u>		<u>17:16</u>	
IR ID # <u>0.8</u>		IR ID # <u>5</u>	
Condition upon receipt: ☐ Present ☐ Intact ☐ Broken		Custody Seals: ☐ Present ☐ Intact ☐ Broken	
E-mail to <u>lcrawford@loureiro.com, acdunne@loureiro.com</u>		E-mail to _____	
EDD format ☐		EDD format ☐	
Condition upon receipt: ☐ Filled ☐ Empty		Condition upon receipt: ☐ Filled ☐ Empty	
Sample Shipping Address: <u>126 Myron Street</u>		Sample Shipping Address: <u>West Springfield, MA 01089 • 413-789-9018</u>	



Environment Testing
New England

CHAIN OF CUSTODY RECORD

17101

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed _____
- All TAT's subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 3 of 3

Report To <u>Laurel Crawford (lcrawford@loureiro.com)</u>		Invoice To <u>Accounts Payable (accountspayable@loureiro.com)</u>		Project No <u>028EE3 01</u>	
<u>Loureiro Engineering Associates, Inc</u>		<u>Loureiro Engineering Associates, Inc</u>		Site Name <u>Zip Zip Mini Mart Site</u>	
<u>112 Corporate Drive, Unit 2</u>		<u>100 Northwest Drive</u>		Location <u>Portsmouth</u> State <u>NH</u>	
<u>Portsmouth, NH 03801</u>		<u>Plainville, CT 06062</u>		Sampler(s) <u>Laurel Crawford</u>	
Telephone # <u>603-778-1100</u>		P O No <u>1260</u> Quote # _____			
Project Mgr <u>Laurel Crawford</u>					
F=Field Filtered 1=Na ₂ S ₂ O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ SOH 8=NaHSO ₄ 9=Deionized Water 10=H ₂ PO ₄ 11= terracore kit 12= _____					
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas					
X1= _____ X2= _____ X3= _____					
Matrix Type					
G= Grab C=Compsite					
Lab ID:	Sample ID:	Date:	Time:	Date:	Time:
-21	EA6/1R Day 15b, 0 5x	2/26/2024	8 04 AM	2/26/24	12:09
-22	EA6/1R Day 15b, 1x	2/26/2024	8 14 AM	2/26/24	12:16
-23	EA6/1R Day 15b, 2x	2/26/2024	8 24 AM		
-24	EA6/1R Day 15b, 3x	2/26/2024	8 34 AM		
-25	EA6/1R Day 15b, ctrl	2/26/2024	8 44 AM		
-26	4R Day 15b, 0 5x	2/26/2024	8 54 AM		
-27	4R Day 15b, 1x	2/26/2024	9 04 AM		
-28	4R Day 15b, 2x	2/26/2024	9 14 AM		
-29	4R Day 15b, 3x	2/26/2024	9 24 AM		
-30	4R Day 15b ctrl	2/26/2024	9 34 AM		
Relinquished by: <u>Laurel Crawford</u>		Received by: <u>[Signature]</u>		Temp °C	
				Observed <u>0.6</u>	
				Correction Factor <u>0.2</u>	
				Corrected <u>0.8</u>	
				IR ID # <u>2</u>	
				Condition upon receipt: ☐ EDD format ☒ E-mail to <u>lcrawford@loureiro.com, acdumme@loureiro.com</u>	
				Custody Seals: ☐ Present ☐ Intact ☐ Broken	
				Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen	
				Condition upon receipt: ☐ Iced ☒ Light ☐ Dark	
				Sample Shipping Address: <u>126 Myron Street West Springfield, MA 01089 • 413-789-3018</u>	
				Lab Address: <u>646 Camp Ave • North Kingstown, RI 02852</u>	

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-17101-1

Login Number: 17101

List Source: Eurofins New England

List Number: 1

Creator: Makhoul, Elie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

Generated 5/20/2024 10:33:58 AM Revision 1

JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-18466-1

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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5/20/2024 10:33:58 AM
Revision 1

Authorized for release by
Becky Mason, Project Manager II
Becky.Mason@et.eurofinsus.com
(413)572-4000

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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Job ID: 620-18466-1

Eurofins Rhode Island

Job Narrative 620-18466-1

REVISION

The report being provided is a revision of the original report sent on 5/14/2024. The report (revision 1) is being revised due to client would like all runs reported.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/7/2024 4:43 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 2.6°C.

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-34620 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Chlorobenzene and 1,1,1,2-Tetrachloroethane. These analytes were biased low in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-34620 recovered outside control limits for the following analytes: Chlorobenzene and 1,1,1,2-Tetrachloroethane. These analytes were biased low in the LCSD and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-34679 recovered outside control limits for the following analytes: Acetone and Ethanol.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-34679 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Bromoform, Chlorobenzene and 1,1,1,2-Tetrachloroethane. These analytes were biased low in the LCSD and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The ICV for analytical batch 620-34576 recovered outside control limits for the following analyte: Chloromethane, which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-34684 exhibited % difference of > 20% for the following analytes: Hexachlorobutadiene and 1,2,4-Trichlorobenzene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-34683 and analytical batch 620-34684 recovered outside control limits for the following analyte: 4-Methyl-2-pentanone (MIBK).

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-34683 and analytical batch 620-34684 recovered

Eurofins Rhode Island

Case Narrative

Client: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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outside control limits for the following analytes: Acetone, Acrylonitrile, trans-1,3-Dichloropropene and 4-Methyl-2-pentanone (MIBK). These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-34687 exhibited % difference of > 20% for the following analyte: Naphthalene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-34686 and analytical batch 620-34687 recovered outside control limits for the following analyte: 2-Hexanone (MBK), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-34686 and analytical batch 620-34687 recovered outside control limits for the following analyte: Dichlorodifluoromethane (Freon 12), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

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

General Chemistry

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

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2100	E	1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	30		1.0	ug/L	1		8260C	Total/NA
Benzene - DL	1800		100	ug/L	100		8260C	Total/NA

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	740	E	3.6	ug/Kg	1	✖	8260C	Total/NA
cis-1,2-Dichloroethene	7.3		3.6	ug/Kg	1	✖	8260C	Total/NA
Methyl tert-butyl ether	6.9		3.6	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	1700		37	ug/Kg	1	✖	8260C	Total/NA
cis-1,2-Dichloroethene - ME	67		37	ug/Kg	1	✖	8260C	Total/NA
N-Propylbenzene - ME	54		37	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900	E	1.0	ug/L	1		8260C	Total/NA
Ethylbenzene	450	E	1.0	ug/L	1		8260C	Total/NA
Isopropylbenzene	1.0		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	32		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	7.4		1.0	ug/L	1		8260C	Total/NA
Toluene	1600	E	1.0	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	1.5		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	1200	E	1.0	ug/L	1		8260C	Total/NA
o-Xylene	590	E	1.0	ug/L	1		8260C	Total/NA
Benzene - DL	2300		50	ug/L	50		8260C	Total/NA
Ethylbenzene - DL	390		50	ug/L	50		8260C	Total/NA
Toluene - DL	1800		50	ug/L	50		8260C	Total/NA
m,p-Xylene - DL	1100		50	ug/L	50		8260C	Total/NA
o-Xylene - DL	760		50	ug/L	50		8260C	Total/NA

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene - DL	1200		65	ug/Kg	2	✖	8260C	Total/NA
Ethylbenzene - DL	840		65	ug/Kg	2	✖	8260C	Total/NA
Naphthalene - DL	210		65	ug/Kg	2	✖	8260C	Total/NA
Tetrachloroethene - DL	100		65	ug/Kg	2	✖	8260C	Total/NA
Toluene - DL	1600		65	ug/Kg	2	✖	8260C	Total/NA
1,2,4-Trimethylbenzene - DL	150		65	ug/Kg	2	✖	8260C	Total/NA
m,p-Xylene - DL	2700		65	ug/Kg	2	✖	8260C	Total/NA
o-Xylene - DL	1700		65	ug/Kg	2	✖	8260C	Total/NA
Benzene - ME	1400		33	ug/Kg	1	✖	8260C	Total/NA
n-Butylbenzene - ME	41		33	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene - ME	1000		33	ug/Kg	1	✖	8260C	Total/NA
Isopropylbenzene - ME	34		33	ug/Kg	1	✖	8260C	Total/NA
N-Propylbenzene - ME	48		33	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene - ME	150		33	ug/Kg	1	✖	8260C	Total/NA
Toluene - ME	2000		33	ug/Kg	1	✖	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	170		33	ug/Kg	1	✖	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC (Continued)

Lab Sample ID: 620-18466-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene - ME	65		33	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	3300	E	33	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	2000		33	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-1

Date Collected: 05/06/24 09:08

Matrix: Water

Date Received: 05/07/24 16:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			05/11/24 18:27	1
Acetone	ND		10	ug/L			05/11/24 18:27	1
Acrylonitrile	ND		1.0	ug/L			05/11/24 18:27	1
Benzene	2100	E	1.0	ug/L			05/11/24 18:27	1
Bromobenzene	ND		1.0	ug/L			05/11/24 18:27	1
Bromochloromethane	ND		1.0	ug/L			05/11/24 18:27	1
Bromodichloromethane	ND		0.50	ug/L			05/11/24 18:27	1
Bromoform	ND		1.0	ug/L			05/11/24 18:27	1
Bromomethane	ND		2.0	ug/L			05/11/24 18:27	1
2-Butanone (MEK)	ND		2.0	ug/L			05/11/24 18:27	1
n-Butylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
sec-Butylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
tert-Butylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
Carbon disulfide	ND		2.0	ug/L			05/11/24 18:27	1
Carbon tetrachloride	ND		1.0	ug/L			05/11/24 18:27	1
Chlorobenzene	ND	*-	1.0	ug/L			05/11/24 18:27	1
Chloroethane	ND		2.0	ug/L			05/11/24 18:27	1
Chloroform	ND		1.0	ug/L			05/11/24 18:27	1
Chloromethane	ND		2.0	ug/L			05/11/24 18:27	1
2-Chlorotoluene	ND		1.0	ug/L			05/11/24 18:27	1
4-Chlorotoluene	ND		1.0	ug/L			05/11/24 18:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/11/24 18:27	1
Dibromochloromethane	ND		0.50	ug/L			05/11/24 18:27	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/11/24 18:27	1
Dibromomethane	ND		1.0	ug/L			05/11/24 18:27	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/11/24 18:27	1
1,1-Dichloroethane	ND		1.0	ug/L			05/11/24 18:27	1
1,2-Dichloroethane	ND		1.0	ug/L			05/11/24 18:27	1
1,1-Dichloroethene	ND		1.0	ug/L			05/11/24 18:27	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 18:27	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 18:27	1
1,2-Dichloropropane	ND		1.0	ug/L			05/11/24 18:27	1
1,3-Dichloropropane	ND		1.0	ug/L			05/11/24 18:27	1
2,2-Dichloropropane	ND		1.0	ug/L			05/11/24 18:27	1
1,1-Dichloropropene	ND		1.0	ug/L			05/11/24 18:27	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 18:27	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 18:27	1
Ethylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
Hexachlorobutadiene	ND		1.0	ug/L			05/11/24 18:27	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/11/24 18:27	1
Isopropylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
4-Isopropyltoluene	ND		1.0	ug/L			05/11/24 18:27	1
Methyl tert-butyl ether	30		1.0	ug/L			05/11/24 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/11/24 18:27	1
Methylene Chloride	ND		2.0	ug/L			05/11/24 18:27	1
Naphthalene	ND		2.0	ug/L			05/11/24 18:27	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-1

Date Collected: 05/06/24 09:08

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
Styrene	ND		1.0	ug/L			05/11/24 18:27	1
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			05/11/24 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/11/24 18:27	1
Tetrachloroethene	ND		1.0	ug/L			05/11/24 18:27	1
Toluene	ND		1.0	ug/L			05/11/24 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/11/24 18:27	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/11/24 18:27	1
Trichloroethene	ND		1.0	ug/L			05/11/24 18:27	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/11/24 18:27	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/11/24 18:27	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/11/24 18:27	1
Vinyl chloride	ND		1.0	ug/L			05/11/24 18:27	1
m,p-Xylene	ND		1.0	ug/L			05/11/24 18:27	1
o-Xylene	ND		1.0	ug/L			05/11/24 18:27	1
Tetrahydrofuran	ND		2.0	ug/L			05/11/24 18:27	1
Ethyl ether	ND		1.0	ug/L			05/11/24 18:27	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/11/24 18:27	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/11/24 18:27	1
di-Isopropyl ether	ND		1.0	ug/L			05/11/24 18:27	1
tert-Butanol	ND		10	ug/L			05/11/24 18:27	1
1,4-Dioxane	ND		50	ug/L			05/11/24 18:27	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/11/24 18:27	1
Ethanol	ND		200	ug/L			05/11/24 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		05/11/24 18:27	1
Toluene-d8 (Surr)	97		70 - 130		05/11/24 18:27	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		05/11/24 18:27	1
Dibromofluoromethane (Surr)	101		70 - 130		05/11/24 18:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	100	ug/L			05/13/24 21:05	100
Acetone	ND	*1	1000	ug/L			05/13/24 21:05	100
Acrylonitrile	ND		100	ug/L			05/13/24 21:05	100
Benzene	1800		100	ug/L			05/13/24 21:05	100
Bromobenzene	ND		100	ug/L			05/13/24 21:05	100
Bromochloromethane	ND		100	ug/L			05/13/24 21:05	100
Bromodichloromethane	ND		50	ug/L			05/13/24 21:05	100
Bromoform	ND	*-	100	ug/L			05/13/24 21:05	100
Bromomethane	ND		200	ug/L			05/13/24 21:05	100
2-Butanone (MEK)	ND		200	ug/L			05/13/24 21:05	100
n-Butylbenzene	ND		100	ug/L			05/13/24 21:05	100
sec-Butylbenzene	ND		100	ug/L			05/13/24 21:05	100

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-1

Date Collected: 05/06/24 09:08

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		100	ug/L			05/13/24 21:05	100
Carbon disulfide	ND		200	ug/L			05/13/24 21:05	100
Carbon tetrachloride	ND		100	ug/L			05/13/24 21:05	100
Chlorobenzene	ND	*-	100	ug/L			05/13/24 21:05	100
Chloroethane	ND		200	ug/L			05/13/24 21:05	100
Chloroform	ND		100	ug/L			05/13/24 21:05	100
Chloromethane	ND		200	ug/L			05/13/24 21:05	100
2-Chlorotoluene	ND		100	ug/L			05/13/24 21:05	100
4-Chlorotoluene	ND		100	ug/L			05/13/24 21:05	100
1,2-Dibromo-3-Chloropropane	ND		200	ug/L			05/13/24 21:05	100
Dibromochloromethane	ND		50	ug/L			05/13/24 21:05	100
1,2-Dibromoethane (EDB)	ND		50	ug/L			05/13/24 21:05	100
Dibromomethane	ND		100	ug/L			05/13/24 21:05	100
1,2-Dichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
1,3-Dichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
1,4-Dichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
Dichlorodifluoromethane (Freon 12)	ND		200	ug/L			05/13/24 21:05	100
1,1-Dichloroethane	ND		100	ug/L			05/13/24 21:05	100
1,2-Dichloroethane	ND		100	ug/L			05/13/24 21:05	100
1,1-Dichloroethene	ND		100	ug/L			05/13/24 21:05	100
cis-1,2-Dichloroethene	ND		100	ug/L			05/13/24 21:05	100
trans-1,2-Dichloroethene	ND		100	ug/L			05/13/24 21:05	100
1,2-Dichloropropane	ND		100	ug/L			05/13/24 21:05	100
1,3-Dichloropropane	ND		100	ug/L			05/13/24 21:05	100
2,2-Dichloropropane	ND		100	ug/L			05/13/24 21:05	100
1,1-Dichloropropene	ND		100	ug/L			05/13/24 21:05	100
cis-1,3-Dichloropropene	ND		50	ug/L			05/13/24 21:05	100
trans-1,3-Dichloropropene	ND		50	ug/L			05/13/24 21:05	100
Ethylbenzene	ND		100	ug/L			05/13/24 21:05	100
Hexachlorobutadiene	ND		100	ug/L			05/13/24 21:05	100
2-Hexanone (MBK)	ND		200	ug/L			05/13/24 21:05	100
Isopropylbenzene	ND		100	ug/L			05/13/24 21:05	100
4-Isopropyltoluene	ND		100	ug/L			05/13/24 21:05	100
Methyl tert-butyl ether	ND		100	ug/L			05/13/24 21:05	100
4-Methyl-2-pentanone (MIBK)	ND		200	ug/L			05/13/24 21:05	100
Methylene Chloride	ND		200	ug/L			05/13/24 21:05	100
Naphthalene	ND		200	ug/L			05/13/24 21:05	100
N-Propylbenzene	ND		100	ug/L			05/13/24 21:05	100
Styrene	ND		100	ug/L			05/13/24 21:05	100
1,1,1,2-Tetrachloroethane	ND	*-	100	ug/L			05/13/24 21:05	100
1,1,2,2-Tetrachloroethane	ND		50	ug/L			05/13/24 21:05	100
Tetrachloroethene	ND		100	ug/L			05/13/24 21:05	100
Toluene	ND		100	ug/L			05/13/24 21:05	100
1,2,3-Trichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
1,2,4-Trichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
1,3,5-Trichlorobenzene	ND		100	ug/L			05/13/24 21:05	100
1,1,1-Trichloroethane	ND		100	ug/L			05/13/24 21:05	100
1,1,2-Trichloroethane	ND		100	ug/L			05/13/24 21:05	100
Trichloroethene	ND		100	ug/L			05/13/24 21:05	100

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-1

Date Collected: 05/06/24 09:08

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		100	ug/L			05/13/24 21:05	100
1,2,3-Trichloropropane	ND		100	ug/L			05/13/24 21:05	100
1,2,4-Trimethylbenzene	ND		100	ug/L			05/13/24 21:05	100
1,3,5-Trimethylbenzene	ND		100	ug/L			05/13/24 21:05	100
Vinyl chloride	ND		100	ug/L			05/13/24 21:05	100
m,p-Xylene	ND		100	ug/L			05/13/24 21:05	100
o-Xylene	ND		100	ug/L			05/13/24 21:05	100
Tetrahydrofuran	ND		200	ug/L			05/13/24 21:05	100
Ethyl ether	ND		100	ug/L			05/13/24 21:05	100
Tert-amyl methyl ether	ND		100	ug/L			05/13/24 21:05	100
Ethyl tert-butyl ether	ND		100	ug/L			05/13/24 21:05	100
di-Isopropyl ether	ND		100	ug/L			05/13/24 21:05	100
tert-Butanol	ND		1000	ug/L			05/13/24 21:05	100
1,4-Dioxane	ND		5000	ug/L			05/13/24 21:05	100
trans-1,4-Dichloro-2-butene	ND		500	ug/L			05/13/24 21:05	100
Ethanol	ND	*1	20000	ug/L			05/13/24 21:05	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		05/13/24 21:05	100
Toluene-d8 (Surr)	98		70 - 130		05/13/24 21:05	100
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		05/13/24 21:05	100
Dibromofluoromethane (Surr)	97		70 - 130		05/13/24 21:05	100

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-2

Date Collected: 05/06/24 09:20

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Acetone	ND		36	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Acrylonitrile	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Benzene	740	E	3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Bromobenzene	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Bromochloromethane	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Bromodichloromethane	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Bromoform	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Bromomethane	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
2-Butanone (MEK)	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
n-Butylbenzene	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
sec-Butylbenzene	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
tert-Butylbenzene	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Carbon disulfide	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Carbon tetrachloride	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Chlorobenzene	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Chloroethane	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Chloroform	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Chloromethane	ND		7.2	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
2-Chlorotoluene	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-2

Date Collected: 05/06/24 09:20

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2-Dibromo-3-Chloropropane	ND		7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Dibromochloromethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2-Dibromoethane (EDB)	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Dibromomethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2-Dichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,3-Dichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,4-Dichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Dichlorodifluoromethane (Freon 12)	ND	*	7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1-Dichloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2-Dichloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1-Dichloroethene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
cis-1,2-Dichloroethene	7.3		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2-Dichloropropane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,3-Dichloropropane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
2,2-Dichloropropane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1-Dichloropropene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Ethylbenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Hexachlorobutadiene	ND		7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
2-Hexanone (MBK)	ND	*	7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Isopropylbenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
4-Isopropyltoluene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Methyl tert-butyl ether	6.9		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
4-Methyl-2-pentanone (MIBK)	ND		7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Methylene Chloride	ND		7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Naphthalene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
N-Propylbenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Styrene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Tetrachloroethene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Toluene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,3,5-Trichlorobenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1,1-Trichloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,1,2-Trichloroethane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Trichloroethene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Trichlorofluoromethane (Freon 11)	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2,3-Trichloropropane	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Vinyl chloride	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
m,p-Xylene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
o-Xylene	ND		3.6	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1
Tetrahydrofuran	ND		7.2	ug/Kg	☆	05/14/24 07:44	05/14/24 11:26	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-2

Date Collected: 05/06/24 09:20

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Tert-amyl methyl ether	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Ethyl tert-butyl ether	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
di-Isopropyl ether	ND		3.6	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
tert-Butanol	ND		72	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
1,4-Dioxane	ND		72	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Ethanol	ND		720	ug/Kg	✱	05/14/24 07:44	05/14/24 11:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/14/24 07:44	05/14/24 11:26	1
Toluene-d8 (Surr)	100		70 - 130			05/14/24 07:44	05/14/24 11:26	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130			05/14/24 07:44	05/14/24 11:26	1
Dibromofluoromethane (Surr)	104		70 - 130			05/14/24 07:44	05/14/24 11:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Acetone	ND	✱+	370	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Acrylonitrile	ND	✱+	37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Benzene	1700		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Bromobenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Bromochloromethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Bromodichloromethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Bromoform	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Bromomethane	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
2-Butanone (MEK)	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
n-Butylbenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
sec-Butylbenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
tert-Butylbenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Carbon disulfide	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Carbon tetrachloride	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Chlorobenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Chloroethane	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Chloroform	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Chloromethane	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
2-Chlorotoluene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
4-Chlorotoluene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,2-Dibromo-3-Chloropropane	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Dibromochloromethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,2-Dibromoethane (EDB)	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Dibromomethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,2-Dichlorobenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,3-Dichlorobenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,4-Dichlorobenzene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
Dichlorodifluoromethane (Freon 12)	ND		74	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,1-Dichloroethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,2-Dichloroethane	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1
1,1-Dichloroethene	ND		37	ug/Kg	✱	05/14/24 10:14	05/14/24 10:55	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Lab Sample ID: 620-18466-2

Date Collected: 05/06/24 09:20

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	67		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
trans-1,2-Dichloroethene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,2-Dichloropropane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,3-Dichloropropane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
2,2-Dichloropropane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,1-Dichloropropene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
cis-1,3-Dichloropropene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
trans-1,3-Dichloropropene	ND	+	37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Ethylbenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Hexachlorobutadiene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
2-Hexanone (MBK)	ND		74	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Isopropylbenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
4-Isopropyltoluene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Methyl tert-butyl ether	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
4-Methyl-2-pentanone (MIBK)	ND	+	74	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Methylene Chloride	ND		74	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Naphthalene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
N-Propylbenzene	54		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Styrene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,1,1,2-Tetrachloroethane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,1,2,2-Tetrachloroethane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Tetrachloroethene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Toluene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,2,3-Trichlorobenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,2,4-Trichlorobenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,3,5-Trichlorobenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,1,1-Trichloroethane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,1,2-Trichloroethane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Trichloroethene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Trichlorofluoromethane (Freon 11)	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,2,3-Trichloropropane	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,2,4-Trimethylbenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,3,5-Trimethylbenzene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Vinyl chloride	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
m,p-Xylene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
o-Xylene	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Tetrahydrofuran	ND		74	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Ethyl ether	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Tert-amyl methyl ether	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Ethyl tert-butyl ether	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
di-Isopropyl ether	ND		37	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
tert-Butanol	ND		740	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
1,4-Dioxane	ND		740	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
trans-1,4-Dichloro-2-butene	ND		180	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1
Ethanol	ND		7400	ug/Kg	☆	05/14/24 10:14	05/14/24 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/14/24 10:14	05/14/24 10:55	1
Toluene-d8 (Surr)	102		70 - 130	05/14/24 10:14	05/14/24 10:55	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	05/14/24 10:14	05/14/24 10:55	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Date Collected: 05/06/24 09:20

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-2

Matrix: Solid

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		70 - 130	05/14/24 10:14	05/14/24 10:55	1

Client Sample ID: 6A/1R Day 15 KC

Date Collected: 05/06/24 09:18

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			05/11/24 18:53	1
Acetone	ND		10	ug/L			05/11/24 18:53	1
Acrylonitrile	ND		1.0	ug/L			05/11/24 18:53	1
Benzene	1900	E	1.0	ug/L			05/11/24 18:53	1
Bromobenzene	ND		1.0	ug/L			05/11/24 18:53	1
Bromochloromethane	ND		1.0	ug/L			05/11/24 18:53	1
Bromodichloromethane	ND		0.50	ug/L			05/11/24 18:53	1
Bromoform	ND		1.0	ug/L			05/11/24 18:53	1
Bromomethane	ND		2.0	ug/L			05/11/24 18:53	1
2-Butanone (MEK)	ND		2.0	ug/L			05/11/24 18:53	1
n-Butylbenzene	ND		1.0	ug/L			05/11/24 18:53	1
sec-Butylbenzene	ND		1.0	ug/L			05/11/24 18:53	1
tert-Butylbenzene	ND		1.0	ug/L			05/11/24 18:53	1
Carbon disulfide	ND		2.0	ug/L			05/11/24 18:53	1
Carbon tetrachloride	ND		1.0	ug/L			05/11/24 18:53	1
Chlorobenzene	ND	*-	1.0	ug/L			05/11/24 18:53	1
Chloroethane	ND		2.0	ug/L			05/11/24 18:53	1
Chloroform	ND		1.0	ug/L			05/11/24 18:53	1
Chloromethane	ND		2.0	ug/L			05/11/24 18:53	1
2-Chlorotoluene	ND		1.0	ug/L			05/11/24 18:53	1
4-Chlorotoluene	ND		1.0	ug/L			05/11/24 18:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/11/24 18:53	1
Dibromochloromethane	ND		0.50	ug/L			05/11/24 18:53	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/11/24 18:53	1
Dibromomethane	ND		1.0	ug/L			05/11/24 18:53	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/11/24 18:53	1
1,1-Dichloroethane	ND		1.0	ug/L			05/11/24 18:53	1
1,2-Dichloroethane	ND		1.0	ug/L			05/11/24 18:53	1
1,1-Dichloroethene	ND		1.0	ug/L			05/11/24 18:53	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 18:53	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 18:53	1
1,2-Dichloropropane	ND		1.0	ug/L			05/11/24 18:53	1
1,3-Dichloropropane	ND		1.0	ug/L			05/11/24 18:53	1
2,2-Dichloropropane	ND		1.0	ug/L			05/11/24 18:53	1
1,1-Dichloropropene	ND		1.0	ug/L			05/11/24 18:53	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 18:53	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 18:53	1
Ethylbenzene	450	E	1.0	ug/L			05/11/24 18:53	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-3

Date Collected: 05/06/24 09:18

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		1.0	ug/L			05/11/24 18:53	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/11/24 18:53	1
Isopropylbenzene	1.0		1.0	ug/L			05/11/24 18:53	1
4-Isopropyltoluene	ND		1.0	ug/L			05/11/24 18:53	1
Methyl tert-butyl ether	32		1.0	ug/L			05/11/24 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/11/24 18:53	1
Methylene Chloride	ND		2.0	ug/L			05/11/24 18:53	1
Naphthalene	ND		2.0	ug/L			05/11/24 18:53	1
N-Propylbenzene	ND		1.0	ug/L			05/11/24 18:53	1
Styrene	ND		1.0	ug/L			05/11/24 18:53	1
1,1,1,2-Tetrachloroethane	ND	*	1.0	ug/L			05/11/24 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/11/24 18:53	1
Tetrachloroethene	7.4		1.0	ug/L			05/11/24 18:53	1
Toluene	1600	E	1.0	ug/L			05/11/24 18:53	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/11/24 18:53	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/11/24 18:53	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/11/24 18:53	1
Trichloroethene	1.4		1.0	ug/L			05/11/24 18:53	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/11/24 18:53	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/11/24 18:53	1
1,2,4-Trimethylbenzene	1.5		1.0	ug/L			05/11/24 18:53	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/11/24 18:53	1
Vinyl chloride	ND		1.0	ug/L			05/11/24 18:53	1
m,p-Xylene	1200	E	1.0	ug/L			05/11/24 18:53	1
o-Xylene	590	E	1.0	ug/L			05/11/24 18:53	1
Tetrahydrofuran	ND		2.0	ug/L			05/11/24 18:53	1
Ethyl ether	ND		1.0	ug/L			05/11/24 18:53	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/11/24 18:53	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/11/24 18:53	1
di-Isopropyl ether	ND		1.0	ug/L			05/11/24 18:53	1
tert-Butanol	ND		10	ug/L			05/11/24 18:53	1
1,4-Dioxane	ND		50	ug/L			05/11/24 18:53	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/11/24 18:53	1
Ethanol	ND		200	ug/L			05/11/24 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		05/11/24 18:53	1
Toluene-d8 (Surr)	98		70 - 130		05/11/24 18:53	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		05/11/24 18:53	1
Dibromofluoromethane (Surr)	100		70 - 130		05/11/24 18:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	50	ug/L			05/13/24 21:32	50
Acetone	ND	*1	500	ug/L			05/13/24 21:32	50
Acrylonitrile	ND		50	ug/L			05/13/24 21:32	50
Benzene	2300		50	ug/L			05/13/24 21:32	50

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-3

Date Collected: 05/06/24 09:18

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		50	ug/L			05/13/24 21:32	50
Bromochloromethane	ND		50	ug/L			05/13/24 21:32	50
Bromodichloromethane	ND		25	ug/L			05/13/24 21:32	50
Bromoform	ND	*-	50	ug/L			05/13/24 21:32	50
Bromomethane	ND		100	ug/L			05/13/24 21:32	50
2-Butanone (MEK)	ND		100	ug/L			05/13/24 21:32	50
n-Butylbenzene	ND		50	ug/L			05/13/24 21:32	50
sec-Butylbenzene	ND		50	ug/L			05/13/24 21:32	50
tert-Butylbenzene	ND		50	ug/L			05/13/24 21:32	50
Carbon disulfide	ND		100	ug/L			05/13/24 21:32	50
Carbon tetrachloride	ND		50	ug/L			05/13/24 21:32	50
Chlorobenzene	ND	*-	50	ug/L			05/13/24 21:32	50
Chloroethane	ND		100	ug/L			05/13/24 21:32	50
Chloroform	ND		50	ug/L			05/13/24 21:32	50
Chloromethane	ND		100	ug/L			05/13/24 21:32	50
2-Chlorotoluene	ND		50	ug/L			05/13/24 21:32	50
4-Chlorotoluene	ND		50	ug/L			05/13/24 21:32	50
1,2-Dibromo-3-Chloropropane	ND		100	ug/L			05/13/24 21:32	50
Dibromochloromethane	ND		25	ug/L			05/13/24 21:32	50
1,2-Dibromoethane (EDB)	ND		25	ug/L			05/13/24 21:32	50
Dibromomethane	ND		50	ug/L			05/13/24 21:32	50
1,2-Dichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
1,3-Dichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
1,4-Dichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
Dichlorodifluoromethane (Freon 12)	ND		100	ug/L			05/13/24 21:32	50
1,1-Dichloroethane	ND		50	ug/L			05/13/24 21:32	50
1,2-Dichloroethane	ND		50	ug/L			05/13/24 21:32	50
1,1-Dichloroethene	ND		50	ug/L			05/13/24 21:32	50
cis-1,2-Dichloroethene	ND		50	ug/L			05/13/24 21:32	50
trans-1,2-Dichloroethene	ND		50	ug/L			05/13/24 21:32	50
1,2-Dichloropropane	ND		50	ug/L			05/13/24 21:32	50
1,3-Dichloropropane	ND		50	ug/L			05/13/24 21:32	50
2,2-Dichloropropane	ND		50	ug/L			05/13/24 21:32	50
1,1-Dichloropropene	ND		50	ug/L			05/13/24 21:32	50
cis-1,3-Dichloropropene	ND		25	ug/L			05/13/24 21:32	50
trans-1,3-Dichloropropene	ND		25	ug/L			05/13/24 21:32	50
Ethylbenzene	390		50	ug/L			05/13/24 21:32	50
Hexachlorobutadiene	ND		50	ug/L			05/13/24 21:32	50
2-Hexanone (MBK)	ND		100	ug/L			05/13/24 21:32	50
Isopropylbenzene	ND		50	ug/L			05/13/24 21:32	50
4-Isopropyltoluene	ND		50	ug/L			05/13/24 21:32	50
Methyl tert-butyl ether	ND		50	ug/L			05/13/24 21:32	50
4-Methyl-2-pentanone (MIBK)	ND		100	ug/L			05/13/24 21:32	50
Methylene Chloride	ND		100	ug/L			05/13/24 21:32	50
Naphthalene	ND		100	ug/L			05/13/24 21:32	50
N-Propylbenzene	ND		50	ug/L			05/13/24 21:32	50
Styrene	ND		50	ug/L			05/13/24 21:32	50
1,1,1,2-Tetrachloroethane	ND	*-	50	ug/L			05/13/24 21:32	50
1,1,2,2-Tetrachloroethane	ND		25	ug/L			05/13/24 21:32	50

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-3

Date Collected: 05/06/24 09:18

Matrix: Water

Date Received: 05/07/24 16:43

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		50	ug/L			05/13/24 21:32	50
Toluene	1800		50	ug/L			05/13/24 21:32	50
1,2,3-Trichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
1,2,4-Trichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
1,3,5-Trichlorobenzene	ND		50	ug/L			05/13/24 21:32	50
1,1,1-Trichloroethane	ND		50	ug/L			05/13/24 21:32	50
1,1,2-Trichloroethane	ND		50	ug/L			05/13/24 21:32	50
Trichloroethene	ND		50	ug/L			05/13/24 21:32	50
Trichlorofluoromethane (Freon 11)	ND		50	ug/L			05/13/24 21:32	50
1,2,3-Trichloropropane	ND		50	ug/L			05/13/24 21:32	50
1,2,4-Trimethylbenzene	ND		50	ug/L			05/13/24 21:32	50
1,3,5-Trimethylbenzene	ND		50	ug/L			05/13/24 21:32	50
Vinyl chloride	ND		50	ug/L			05/13/24 21:32	50
m,p-Xylene	1100		50	ug/L			05/13/24 21:32	50
o-Xylene	760		50	ug/L			05/13/24 21:32	50
Tetrahydrofuran	ND		100	ug/L			05/13/24 21:32	50
Ethyl ether	ND		50	ug/L			05/13/24 21:32	50
Tert-amyl methyl ether	ND		50	ug/L			05/13/24 21:32	50
Ethyl tert-butyl ether	ND		50	ug/L			05/13/24 21:32	50
di-Isopropyl ether	ND		50	ug/L			05/13/24 21:32	50
tert-Butanol	ND		500	ug/L			05/13/24 21:32	50
1,4-Dioxane	ND		2500	ug/L			05/13/24 21:32	50
trans-1,4-Dichloro-2-butene	ND		250	ug/L			05/13/24 21:32	50
Ethanol	ND	*1	10000	ug/L			05/13/24 21:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		05/13/24 21:32	50
Toluene-d8 (Surr)	100		70 - 130		05/13/24 21:32	50
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/13/24 21:32	50
Dibromofluoromethane (Surr)	100		70 - 130		05/13/24 21:32	50

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Date Collected: 05/06/24 09:30

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Acetone	ND	*+	650	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Acrylonitrile	ND	*+	65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Benzene	1200		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Bromobenzene	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Bromochloromethane	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Bromodichloromethane	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Bromoform	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
Bromomethane	ND		130	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
2-Butanone (MEK)	ND		130	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
n-Butylbenzene	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2
sec-Butylbenzene	ND		65	ug/Kg	✧	05/14/24 10:14	05/14/24 12:35	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Date Collected: 05/06/24 09:30

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 89.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Carbon disulfide	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Carbon tetrachloride	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Chlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Chloroethane	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Chloroform	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Chloromethane	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
2-Chlorotoluene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
4-Chlorotoluene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2-Dibromo-3-Chloropropane	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Dibromochloromethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2-Dibromoethane (EDB)	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Dibromomethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2-Dichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,3-Dichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,4-Dichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Dichlorodifluoromethane (Freon 12)	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1-Dichloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2-Dichloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1-Dichloroethene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
cis-1,2-Dichloroethene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
trans-1,2-Dichloroethene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2-Dichloropropane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,3-Dichloropropane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
2,2-Dichloropropane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1-Dichloropropene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
cis-1,3-Dichloropropene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
trans-1,3-Dichloropropene	ND	+	65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Ethylbenzene	840		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Hexachlorobutadiene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
2-Hexanone (MBK)	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Isopropylbenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
4-Isopropyltoluene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Methyl tert-butyl ether	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
4-Methyl-2-pentanone (MIBK)	ND	+	130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Methylene Chloride	ND		130	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Naphthalene	210		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
N-Propylbenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Styrene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1,1,2-Tetrachloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1,2,2-Tetrachloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Tetrachloroethene	100		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Toluene	1600		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2,3-Trichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,2,4-Trichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,3,5-Trichlorobenzene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1,1-Trichloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
1,1,2-Trichloroethane	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2
Trichloroethene	ND		65	ug/Kg	✱	05/14/24 10:14	05/14/24 12:35	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Date Collected: 05/06/24 09:30

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 89.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
1,2,3-Trichloropropane	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
1,2,4-Trimethylbenzene	150		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
1,3,5-Trimethylbenzene	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Vinyl chloride	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
m,p-Xylene	2700		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
o-Xylene	1700		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Tetrahydrofuran	ND		130	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Ethyl ether	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Tert-amyl methyl ether	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Ethyl tert-butyl ether	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
di-Isopropyl ether	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
tert-Butanol	ND		1300	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
1,4-Dioxane	ND		1300	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
trans-1,4-Dichloro-2-butene	ND		330	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2
Ethanol	ND		13000	ug/Kg	☆	05/14/24 10:14	05/14/24 12:35	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/14/24 10:14	05/14/24 12:35	2
Toluene-d8 (Surr)	98		70 - 130	05/14/24 10:14	05/14/24 12:35	2
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	05/14/24 10:14	05/14/24 12:35	2
Dibromofluoromethane (Surr)	96		70 - 130	05/14/24 10:14	05/14/24 12:35	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Acetone	ND	+	330	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Acrylonitrile	ND	+	33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Benzene	1400		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Bromobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Bromochloromethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Bromodichloromethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Bromoform	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Bromomethane	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
2-Butanone (MEK)	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
n-Butylbenzene	41		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
sec-Butylbenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
tert-Butylbenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Carbon disulfide	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Carbon tetrachloride	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Chlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Chloroethane	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Chloroform	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Chloromethane	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
2-Chlorotoluene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
4-Chlorotoluene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2-Dibromo-3-Chloropropane	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Dibromochloromethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2-Dibromoethane (EDB)	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Date Collected: 05/06/24 09:30

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 89.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2-Dichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,3-Dichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,4-Dichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Dichlorodifluoromethane (Freon 12)	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1-Dichloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2-Dichloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1-Dichloroethene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
cis-1,2-Dichloroethene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
trans-1,2-Dichloroethene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2-Dichloropropane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,3-Dichloropropane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
2,2-Dichloropropane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1-Dichloropropene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
cis-1,3-Dichloropropene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
trans-1,3-Dichloropropene	ND	*+	33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Ethylbenzene	1000		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Hexachlorobutadiene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
2-Hexanone (MBK)	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Isopropylbenzene	34		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
4-Isopropyltoluene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Methyl tert-butyl ether	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
4-Methyl-2-pentanone (MIBK)	ND	*+ *1	65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Methylene Chloride	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Naphthalene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
N-Propylbenzene	48		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Styrene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1,1,2-Tetrachloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1,2,2-Tetrachloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Tetrachloroethene	150		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Toluene	2000		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2,3-Trichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2,4-Trichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,3,5-Trichlorobenzene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1,1-Trichloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,1,2-Trichloroethane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Trichloroethene	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Trichlorofluoromethane (Freon 11)	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2,3-Trichloropropane	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,2,4-Trimethylbenzene	170		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
1,3,5-Trimethylbenzene	65		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Vinyl chloride	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
m,p-Xylene	3300	E	33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
o-Xylene	2000		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Tetrahydrofuran	ND		65	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Ethyl ether	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Tert-amyl methyl ether	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
Ethyl tert-butyl ether	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1
di-Isopropyl ether	ND		33	ug/Kg	☆	05/14/24 10:14	05/14/24 11:20	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 6A/1R Day 15 KC

Lab Sample ID: 620-18466-4

Date Collected: 05/06/24 09:30

Matrix: Solid

Date Received: 05/07/24 16:43

Percent Solids: 89.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		650	ug/Kg	☼	05/14/24 10:14	05/14/24 11:20	1
1,4-Dioxane	ND		650	ug/Kg	☼	05/14/24 10:14	05/14/24 11:20	1
trans-1,4-Dichloro-2-butene	ND		160	ug/Kg	☼	05/14/24 10:14	05/14/24 11:20	1
Ethanol	ND		6500	ug/Kg	☼	05/14/24 10:14	05/14/24 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/14/24 10:14	05/14/24 11:20	1
Toluene-d8 (Surr)	102		70 - 130	05/14/24 10:14	05/14/24 11:20	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	05/14/24 10:14	05/14/24 11:20	1
Dibromofluoromethane (Surr)	100		70 - 130	05/14/24 10:14	05/14/24 11:20	1

Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Matrix: Solid

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)
620-18466-2 - ME	4R Day 15 KC	98	102	104	100
620-18466-2	4R Day 15 KC	100	100	105	104
620-18466-4 - DL	6A/1R Day 15 KC	99	98	98	96
620-18466-4 - ME	6A/1R Day 15 KC	98	102	102	100
LCS 620-34683/1-A	Lab Control Sample	102	103	107	104
LCS 620-34686/1-A	Lab Control Sample	102	103	105	106
LCSD 620-34683/2-A	Lab Control Sample Dup	101	101	101	101
LCSD 620-34686/2-A	Lab Control Sample Dup	100	103	103	105
MB 620-34683/3-A	Method Blank	96	99	101	99
MB 620-34686/3-A	Method Blank	98	99	105	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

DBFM = Dibromofluoromethane (Surr)

Method: 8260C - 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)
620-18466-1	4R Day 15 KC	95	97	109	101
620-18466-1 - DL	4R Day 15 KC	96	98	100	97
620-18466-3	6A/1R Day 15 KC	103	98	105	100
620-18466-3 - DL	6A/1R Day 15 KC	101	100	101	100
LCS 620-34620/4	Lab Control Sample	103	101	102	103
LCS 620-34679/4	Lab Control Sample	104	101	100	100
LCSD 620-34620/5	Lab Control Sample Dup	102	100	99	100
LCSD 620-34679/5	Lab Control Sample Dup	103	101	100	100
MB 620-34620/7	Method Blank	98	97	98	99
MB 620-34679/7	Method Blank	99	100	107	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34620/7

Matrix: Water

Analysis Batch: 34620

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			05/11/24 13:26	1
Acetone	ND		10	ug/L			05/11/24 13:26	1
Acrylonitrile	ND		1.0	ug/L			05/11/24 13:26	1
Benzene	ND		1.0	ug/L			05/11/24 13:26	1
Bromobenzene	ND		1.0	ug/L			05/11/24 13:26	1
Bromochloromethane	ND		1.0	ug/L			05/11/24 13:26	1
Bromodichloromethane	ND		0.50	ug/L			05/11/24 13:26	1
Bromoform	ND		1.0	ug/L			05/11/24 13:26	1
Bromomethane	ND		2.0	ug/L			05/11/24 13:26	1
2-Butanone (MEK)	ND		2.0	ug/L			05/11/24 13:26	1
n-Butylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
sec-Butylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
tert-Butylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
Carbon disulfide	ND		2.0	ug/L			05/11/24 13:26	1
Carbon tetrachloride	ND		1.0	ug/L			05/11/24 13:26	1
Chlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
Chloroethane	ND		2.0	ug/L			05/11/24 13:26	1
Chloroform	ND		1.0	ug/L			05/11/24 13:26	1
Chloromethane	ND		2.0	ug/L			05/11/24 13:26	1
2-Chlorotoluene	ND		1.0	ug/L			05/11/24 13:26	1
4-Chlorotoluene	ND		1.0	ug/L			05/11/24 13:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/11/24 13:26	1
Dibromochloromethane	ND		0.50	ug/L			05/11/24 13:26	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/11/24 13:26	1
Dibromomethane	ND		1.0	ug/L			05/11/24 13:26	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/11/24 13:26	1
1,1-Dichloroethane	ND		1.0	ug/L			05/11/24 13:26	1
1,2-Dichloroethane	ND		1.0	ug/L			05/11/24 13:26	1
1,1-Dichloroethene	ND		1.0	ug/L			05/11/24 13:26	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 13:26	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/11/24 13:26	1
1,2-Dichloropropane	ND		1.0	ug/L			05/11/24 13:26	1
1,3-Dichloropropane	ND		1.0	ug/L			05/11/24 13:26	1
2,2-Dichloropropane	ND		1.0	ug/L			05/11/24 13:26	1
1,1-Dichloropropene	ND		1.0	ug/L			05/11/24 13:26	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 13:26	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/11/24 13:26	1
Ethylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
Hexachlorobutadiene	ND		1.0	ug/L			05/11/24 13:26	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/11/24 13:26	1
Isopropylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
4-Isopropyltoluene	ND		1.0	ug/L			05/11/24 13:26	1
Methyl tert-butyl ether	ND		1.0	ug/L			05/11/24 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/11/24 13:26	1
Methylene Chloride	ND		2.0	ug/L			05/11/24 13:26	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34620/7

Matrix: Water

Analysis Batch: 34620

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	ug/L			05/11/24 13:26	1
N-Propylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
Styrene	ND		1.0	ug/L			05/11/24 13:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/11/24 13:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/11/24 13:26	1
Tetrachloroethene	ND		1.0	ug/L			05/11/24 13:26	1
Toluene	ND		1.0	ug/L			05/11/24 13:26	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/11/24 13:26	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/11/24 13:26	1
Trichloroethene	ND		1.0	ug/L			05/11/24 13:26	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/11/24 13:26	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/11/24 13:26	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/11/24 13:26	1
Vinyl chloride	ND		1.0	ug/L			05/11/24 13:26	1
m,p-Xylene	ND		1.0	ug/L			05/11/24 13:26	1
o-Xylene	ND		1.0	ug/L			05/11/24 13:26	1
Tetrahydrofuran	ND		2.0	ug/L			05/11/24 13:26	1
Ethyl ether	ND		1.0	ug/L			05/11/24 13:26	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/11/24 13:26	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/11/24 13:26	1
di-Isopropyl ether	ND		1.0	ug/L			05/11/24 13:26	1
tert-Butanol	ND		10	ug/L			05/11/24 13:26	1
1,4-Dioxane	ND		50	ug/L			05/11/24 13:26	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/11/24 13:26	1
Ethanol	ND		200	ug/L			05/11/24 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		05/11/24 13:26	1
Toluene-d8 (Surr)	97		70 - 130		05/11/24 13:26	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/11/24 13:26	1
Dibromofluoromethane (Surr)	99		70 - 130		05/11/24 13:26	1

Lab Sample ID: LCS 620-34620/4

Matrix: Water

Analysis Batch: 34620

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.7	*-	ug/L		83	85 - 124
Acetone	20.0	19.7		ug/L		98	14 - 133
Acrylonitrile	20.0	21.3		ug/L		106	62 - 134
Benzene	20.0	21.1		ug/L		106	86 - 111
Bromobenzene	20.0	18.2		ug/L		91	82 - 120
Bromochloromethane	20.0	20.1		ug/L		100	83 - 123
Bromodichloromethane	20.0	19.2		ug/L		96	83 - 137

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34620/4

Matrix: Water

Analysis Batch: 34620

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	19.4		ug/L		97	91 - 137
Bromomethane	20.0	10.4		ug/L		52	29 - 148
2-Butanone (MEK)	20.0	17.9		ug/L		90	10 - 200
n-Butylbenzene	20.0	22.8		ug/L		114	85 - 138
sec-Butylbenzene	20.0	18.9		ug/L		94	75 - 118
tert-Butylbenzene	20.0	19.3		ug/L		97	85 - 122
Carbon disulfide	20.0	17.6		ug/L		88	69 - 150
Carbon tetrachloride	20.0	18.1		ug/L		90	84 - 123
Chlorobenzene	20.0	18.3	*-	ug/L		91	93 - 115
Chloroethane	20.0	16.1		ug/L		80	56 - 155
Chloroform	20.0	20.1		ug/L		100	84 - 116
Chloromethane	20.0	14.0		ug/L		70	45 - 138
2-Chlorotoluene	20.0	21.2		ug/L		106	88 - 116
4-Chlorotoluene	20.0	20.7		ug/L		104	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	15.9		ug/L		80	70 - 139
Dibromochloromethane	20.0	19.1		ug/L		96	83 - 132
1,2-Dibromoethane (EDB)	20.0	20.7		ug/L		104	82 - 125
Dibromomethane	20.0	19.5		ug/L		97	80 - 125
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	84 - 128
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	85 - 120
1,4-Dichlorobenzene	20.0	18.1		ug/L		91	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	11.3		ug/L		56	36 - 131
1,1-Dichloroethane	20.0	20.9		ug/L		105	81 - 120
1,2-Dichloroethane	20.0	17.8		ug/L		89	82 - 116
1,1-Dichloroethene	20.0	20.0		ug/L		100	83 - 120
cis-1,2-Dichloroethene	20.0	22.3		ug/L		111	81 - 124
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	81 - 127
1,2-Dichloropropane	20.0	21.3		ug/L		106	76 - 132
1,3-Dichloropropane	20.0	20.8		ug/L		104	74 - 122
2,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 130
1,1-Dichloropropene	20.0	20.6		ug/L		103	81 - 115
cis-1,3-Dichloropropene	20.0	22.4		ug/L		112	74 - 129
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	78 - 126
Ethylbenzene	20.0	20.2		ug/L		101	89 - 117
Hexachlorobutadiene	20.0	18.3		ug/L		92	77 - 118
2-Hexanone (MBK)	20.0	18.5		ug/L		93	37 - 123
Isopropylbenzene	20.0	18.9		ug/L		95	83 - 117
4-Isopropyltoluene	20.0	20.3		ug/L		102	83 - 124
Methyl tert-butyl ether	20.0	22.1		ug/L		110	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		100	59 - 118
Methylene Chloride	20.0	19.8		ug/L		99	75 - 121
Naphthalene	20.0	21.4		ug/L		107	67 - 123
N-Propylbenzene	20.0	20.8		ug/L		104	84 - 128
Styrene	20.0	19.2		ug/L		96	78 - 127
1,1,1,2-Tetrachloroethane	20.0	17.8	*-	ug/L		89	91 - 118
1,1,2,2-Tetrachloroethane	20.0	17.5		ug/L		88	77 - 129
Tetrachloroethene	20.0	19.5		ug/L		97	85 - 116
Toluene	20.0	19.3		ug/L		97	88 - 109

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34620/4

Matrix: Water

Analysis Batch: 34620

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	21.4		ug/L		107	67 - 134
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	78 - 133
1,3,5-Trichlorobenzene	20.0	21.2		ug/L		106	77 - 127
1,1,1-Trichloroethane	20.0	18.5		ug/L		92	83 - 124
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	84 - 132
Trichloroethene	20.0	18.1		ug/L		90	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	16.9		ug/L		84	82 - 126
1,2,3-Trichloropropane	20.0	18.0		ug/L		90	77 - 124
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	89 - 126
1,3,5-Trimethylbenzene	20.0	21.8		ug/L		109	89 - 125
Vinyl chloride	20.0	16.0		ug/L		80	62 - 130
m,p-Xylene	40.0	45.5		ug/L		114	85 - 123
o-Xylene	20.0	19.7		ug/L		98	85 - 119
Tetrahydrofuran	20.0	19.9		ug/L		100	60 - 133
Ethyl ether	20.0	19.6		ug/L		98	69 - 122
Tert-amyl methyl ether	20.0	19.0		ug/L		95	50 - 140
Ethyl tert-butyl ether	20.0	19.2		ug/L		96	60 - 131
di-Isopropyl ether	20.0	19.6		ug/L		98	67 - 125
tert-Butanol	200	229		ug/L		114	50 - 169
1,4-Dioxane	200	191		ug/L		95	28 - 150
trans-1,4-Dichloro-2-butene	20.0	19.2		ug/L		96	48 - 153
Ethanol	400	378		ug/L		95	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: LCSD 620-34620/5

Matrix: Water

Analysis Batch: 34620

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.1		ug/L		85	85 - 124	2	20
Acetone	20.0	20.1		ug/L		100	14 - 133	2	20
Acrylonitrile	20.0	23.8		ug/L		119	62 - 134	11	20
Benzene	20.0	20.8		ug/L		104	86 - 111	1	20
Bromobenzene	20.0	18.0		ug/L		90	82 - 120	1	20
Bromochloromethane	20.0	19.7		ug/L		99	83 - 123	2	20
Bromodichloromethane	20.0	18.8		ug/L		94	83 - 137	2	20
Bromoform	20.0	19.5		ug/L		98	91 - 137	1	20
Bromomethane	20.0	11.1		ug/L		55	29 - 148	7	20
2-Butanone (MEK)	20.0	18.7		ug/L		93	10 - 200	4	20
n-Butylbenzene	20.0	22.8		ug/L		114	85 - 138	0	20
sec-Butylbenzene	20.0	19.1		ug/L		96	75 - 118	1	20
tert-Butylbenzene	20.0	19.2		ug/L		96	85 - 122	1	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34620/5

Matrix: Water

Analysis Batch: 34620

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 Limit
Carbon disulfide	20.0	17.6		ug/L		88	69 - 150	0	20
Carbon tetrachloride	20.0	18.6		ug/L		93	84 - 123	3	20
Chlorobenzene	20.0	18.4	*-	ug/L		92	93 - 115	1	20
Chloroethane	20.0	16.0		ug/L		80	56 - 155	0	20
Chloroform	20.0	19.8		ug/L		99	84 - 116	1	20
Chloromethane	20.0	13.8		ug/L		69	45 - 138	2	20
2-Chlorotoluene	20.0	21.4		ug/L		107	88 - 116	1	20
4-Chlorotoluene	20.0	20.8		ug/L		104	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	16.9		ug/L		84	70 - 139	6	20
Dibromochloromethane	20.0	19.1		ug/L		96	83 - 132	0	20
1,2-Dibromoethane (EDB)	20.0	20.4		ug/L		102	82 - 125	2	20
Dibromomethane	20.0	20.1		ug/L		100	80 - 125	3	20
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	84 - 128	1	20
1,3-Dichlorobenzene	20.0	19.5		ug/L		97	85 - 120	1	20
1,4-Dichlorobenzene	20.0	18.3		ug/L		91	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	11.4		ug/L		57	36 - 131	1	20
1,1-Dichloroethane	20.0	20.6		ug/L		103	81 - 120	2	20
1,2-Dichloroethane	20.0	17.5		ug/L		88	82 - 116	2	20
1,1-Dichloroethene	20.0	20.7		ug/L		103	83 - 120	3	20
cis-1,2-Dichloroethene	20.0	22.5		ug/L		113	81 - 124	1	20
trans-1,2-Dichloroethene	20.0	22.0		ug/L		110	81 - 127	3	20
1,2-Dichloropropane	20.0	21.3		ug/L		106	76 - 132	0	20
1,3-Dichloropropane	20.0	20.3		ug/L		101	74 - 122	3	20
2,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 130	0	20
1,1-Dichloropropene	20.0	20.6		ug/L		103	81 - 115	0	20
cis-1,3-Dichloropropene	20.0	22.4		ug/L		112	74 - 129	0	20
trans-1,3-Dichloropropene	20.0	22.0		ug/L		110	78 - 126	1	20
Ethylbenzene	20.0	20.3		ug/L		102	89 - 117	1	20
Hexachlorobutadiene	20.0	18.8		ug/L		94	77 - 118	3	20
2-Hexanone (MBK)	20.0	19.4		ug/L		97	37 - 123	5	20
Isopropylbenzene	20.0	19.2		ug/L		96	83 - 117	1	20
4-Isopropyltoluene	20.0	20.6		ug/L		103	83 - 124	1	20
Methyl tert-butyl ether	20.0	22.0		ug/L		110	70 - 126	0	20
4-Methyl-2-pentanone (MIBK)	20.0	20.4		ug/L		102	59 - 118	3	20
Methylene Chloride	20.0	19.2		ug/L		96	75 - 121	3	20
Naphthalene	20.0	21.9		ug/L		110	67 - 123	2	20
N-Propylbenzene	20.0	21.0		ug/L		105	84 - 128	1	20
Styrene	20.0	19.1		ug/L		96	78 - 127	1	20
1,1,1,2-Tetrachloroethane	20.0	18.1	*-	ug/L		90	91 - 118	2	20
1,1,1,2,2-Tetrachloroethane	20.0	17.4		ug/L		87	77 - 129	1	20
Tetrachloroethene	20.0	19.4		ug/L		97	85 - 116	0	20
Toluene	20.0	19.2		ug/L		96	88 - 109	0	20
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		108	67 - 134	1	20
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	78 - 133	2	20
1,3,5-Trichlorobenzene	20.0	21.3		ug/L		107	77 - 127	1	20
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	83 - 124	1	20
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	84 - 132	3	20
Trichloroethene	20.0	18.0		ug/L		90	74 - 118	0	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34620/5

Matrix: Water

Analysis Batch: 34620

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 Limit
Trichlorofluoromethane (Freon 11)	20.0	16.8		ug/L		84	82 - 126	0	20
1,2,3-Trichloropropane	20.0	18.1		ug/L		90	77 - 124	0	20
1,2,4-Trimethylbenzene	20.0	19.5		ug/L		97	89 - 126	1	20
1,3,5-Trimethylbenzene	20.0	21.7		ug/L		108	89 - 125	1	20
Vinyl chloride	20.0	16.6		ug/L		83	62 - 130	4	20
m,p-Xylene	40.0	45.7		ug/L		114	85 - 123	0	20
o-Xylene	20.0	20.0		ug/L		100	85 - 119	2	20
Tetrahydrofuran	20.0	21.7		ug/L		109	60 - 133	9	20
Ethyl ether	20.0	19.6		ug/L		98	69 - 122	0	20
Tert-amyl methyl ether	20.0	18.9		ug/L		95	50 - 140	0	20
Ethyl tert-butyl ether	20.0	19.3		ug/L		96	60 - 131	0	20
di-Isopropyl ether	20.0	19.3		ug/L		96	67 - 125	2	20
tert-Butanol	200	233		ug/L		116	50 - 169	2	20
1,4-Dioxane	200	191		ug/L		95	28 - 150	0	20
trans-1,4-Dichloro-2-butene	20.0	19.5		ug/L		97	48 - 153	2	20
Ethanol	400	425		ug/L		106	47 - 170	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-34679/7

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			05/13/24 20:39	1
Acetone	ND		10	ug/L			05/13/24 20:39	1
Acrylonitrile	ND		1.0	ug/L			05/13/24 20:39	1
Benzene	ND		1.0	ug/L			05/13/24 20:39	1
Bromobenzene	ND		1.0	ug/L			05/13/24 20:39	1
Bromochloromethane	ND		1.0	ug/L			05/13/24 20:39	1
Bromodichloromethane	ND		0.50	ug/L			05/13/24 20:39	1
Bromoform	ND		1.0	ug/L			05/13/24 20:39	1
Bromomethane	ND		2.0	ug/L			05/13/24 20:39	1
2-Butanone (MEK)	ND		2.0	ug/L			05/13/24 20:39	1
n-Butylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
sec-Butylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
tert-Butylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
Carbon disulfide	ND		2.0	ug/L			05/13/24 20:39	1
Carbon tetrachloride	ND		1.0	ug/L			05/13/24 20:39	1
Chlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
Chloroethane	ND		2.0	ug/L			05/13/24 20:39	1
Chloroform	ND		1.0	ug/L			05/13/24 20:39	1
Chloromethane	ND		2.0	ug/L			05/13/24 20:39	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34679/7

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0	ug/L			05/13/24 20:39	1
4-Chlorotoluene	ND		1.0	ug/L			05/13/24 20:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/13/24 20:39	1
Dibromochloromethane	ND		0.50	ug/L			05/13/24 20:39	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			05/13/24 20:39	1
Dibromomethane	ND		1.0	ug/L			05/13/24 20:39	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			05/13/24 20:39	1
1,1-Dichloroethane	ND		1.0	ug/L			05/13/24 20:39	1
1,2-Dichloroethane	ND		1.0	ug/L			05/13/24 20:39	1
1,1-Dichloroethene	ND		1.0	ug/L			05/13/24 20:39	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/13/24 20:39	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/13/24 20:39	1
1,2-Dichloropropane	ND		1.0	ug/L			05/13/24 20:39	1
1,3-Dichloropropane	ND		1.0	ug/L			05/13/24 20:39	1
2,2-Dichloropropane	ND		1.0	ug/L			05/13/24 20:39	1
1,1-Dichloropropene	ND		1.0	ug/L			05/13/24 20:39	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/13/24 20:39	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/13/24 20:39	1
Ethylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
Hexachlorobutadiene	ND		1.0	ug/L			05/13/24 20:39	1
2-Hexanone (MBK)	ND		2.0	ug/L			05/13/24 20:39	1
Isopropylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
4-Isopropyltoluene	ND		1.0	ug/L			05/13/24 20:39	1
Methyl tert-butyl ether	ND		1.0	ug/L			05/13/24 20:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			05/13/24 20:39	1
Methylene Chloride	ND		2.0	ug/L			05/13/24 20:39	1
Naphthalene	ND		2.0	ug/L			05/13/24 20:39	1
N-Propylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
Styrene	ND		1.0	ug/L			05/13/24 20:39	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/13/24 20:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/13/24 20:39	1
Tetrachloroethene	ND		1.0	ug/L			05/13/24 20:39	1
Toluene	ND		1.0	ug/L			05/13/24 20:39	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/13/24 20:39	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/13/24 20:39	1
Trichloroethene	ND		1.0	ug/L			05/13/24 20:39	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			05/13/24 20:39	1
1,2,3-Trichloropropane	ND		1.0	ug/L			05/13/24 20:39	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/13/24 20:39	1
Vinyl chloride	ND		1.0	ug/L			05/13/24 20:39	1
m,p-Xylene	ND		1.0	ug/L			05/13/24 20:39	1
o-Xylene	ND		1.0	ug/L			05/13/24 20:39	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34679/7

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		2.0	ug/L			05/13/24 20:39	1
Ethyl ether	ND		1.0	ug/L			05/13/24 20:39	1
Tert-amyl methyl ether	ND		1.0	ug/L			05/13/24 20:39	1
Ethyl tert-butyl ether	ND		1.0	ug/L			05/13/24 20:39	1
di-Isopropyl ether	ND		1.0	ug/L			05/13/24 20:39	1
tert-Butanol	ND		10	ug/L			05/13/24 20:39	1
1,4-Dioxane	ND		50	ug/L			05/13/24 20:39	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			05/13/24 20:39	1
Ethanol	ND		200	ug/L			05/13/24 20:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		05/13/24 20:39	1
Toluene-d8 (Surr)	100		70 - 130		05/13/24 20:39	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		05/13/24 20:39	1
Dibromofluoromethane (Surr)	103		70 - 130		05/13/24 20:39	1

Lab Sample ID: LCS 620-34679/4

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.8		ug/L		89	85 - 124
Acetone	20.0	22.3		ug/L		111	14 - 133
Acrylonitrile	20.0	21.7		ug/L		109	62 - 134
Benzene	20.0	21.8		ug/L		109	86 - 111
Bromobenzene	20.0	18.2		ug/L		91	82 - 120
Bromochloromethane	20.0	20.3		ug/L		101	83 - 123
Bromodichloromethane	20.0	19.7		ug/L		99	83 - 137
Bromoform	20.0	18.4		ug/L		92	91 - 137
Bromomethane	20.0	13.3		ug/L		67	29 - 148
2-Butanone (MEK)	20.0	20.3		ug/L		101	10 - 200
n-Butylbenzene	20.0	23.8		ug/L		119	85 - 138
sec-Butylbenzene	20.0	19.5		ug/L		98	75 - 118
tert-Butylbenzene	20.0	19.5		ug/L		98	85 - 122
Carbon disulfide	20.0	18.1		ug/L		90	69 - 150
Carbon tetrachloride	20.0	19.3		ug/L		97	84 - 123
Chlorobenzene	20.0	19.2		ug/L		96	93 - 115
Chloroethane	20.0	17.4		ug/L		87	56 - 155
Chloroform	20.0	20.8		ug/L		104	84 - 116
Chloromethane	20.0	15.8		ug/L		79	45 - 138
2-Chlorotoluene	20.0	22.1		ug/L		111	88 - 116
4-Chlorotoluene	20.0	21.5		ug/L		108	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	70 - 139
Dibromochloromethane	20.0	19.1		ug/L		96	83 - 132
1,2-Dibromoethane (EDB)	20.0	20.7		ug/L		103	82 - 125
Dibromomethane	20.0	20.2		ug/L		101	80 - 125
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	84 - 128
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	85 - 120

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34679/4

Matrix: Water

Analysis Batch: 34679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	13.2		ug/L		66	36 - 131
1,1-Dichloroethane	20.0	22.1		ug/L		110	81 - 120
1,2-Dichloroethane	20.0	18.1		ug/L		90	82 - 116
1,1-Dichloroethene	20.0	21.4		ug/L		107	83 - 120
cis-1,2-Dichloroethene	20.0	23.3		ug/L		117	81 - 124
trans-1,2-Dichloroethene	20.0	22.3		ug/L		112	81 - 127
1,2-Dichloropropane	20.0	22.6		ug/L		113	76 - 132
1,3-Dichloropropane	20.0	20.9		ug/L		104	74 - 122
2,2-Dichloropropane	20.0	20.2		ug/L		101	77 - 130
1,1-Dichloropropene	20.0	21.4		ug/L		107	81 - 115
cis-1,3-Dichloropropene	20.0	22.4		ug/L		112	74 - 129
trans-1,3-Dichloropropene	20.0	22.3		ug/L		111	78 - 126
Ethylbenzene	20.0	21.1		ug/L		106	89 - 117
Hexachlorobutadiene	20.0	18.4		ug/L		92	77 - 118
2-Hexanone (MBK)	20.0	20.4		ug/L		102	37 - 123
Isopropylbenzene	20.0	19.6		ug/L		98	83 - 117
4-Isopropyltoluene	20.0	21.9		ug/L		109	83 - 124
Methyl tert-butyl ether	20.0	22.4		ug/L		112	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	21.7		ug/L		109	59 - 118
Methylene Chloride	20.0	20.8		ug/L		104	75 - 121
Naphthalene	20.0	20.9		ug/L		105	67 - 123
N-Propylbenzene	20.0	21.8		ug/L		109	84 - 128
Styrene	20.0	19.4		ug/L		97	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	91 - 118
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		89	77 - 129
Tetrachloroethene	20.0	19.5		ug/L		98	85 - 116
Toluene	20.0	19.9		ug/L		100	88 - 109
1,2,3-Trichlorobenzene	20.0	20.6		ug/L		103	67 - 134
1,2,4-Trichlorobenzene	20.0	19.1		ug/L		96	78 - 133
1,3,5-Trichlorobenzene	20.0	21.3		ug/L		107	77 - 127
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	83 - 124
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	84 - 132
Trichloroethene	20.0	18.5		ug/L		93	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	17.9		ug/L		90	82 - 126
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	77 - 124
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	89 - 126
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		112	89 - 125
Vinyl chloride	20.0	18.7		ug/L		93	62 - 130
m,p-Xylene	40.0	47.4		ug/L		119	85 - 123
o-Xylene	20.0	20.8		ug/L		104	85 - 119
Tetrahydrofuran	20.0	20.3		ug/L		102	60 - 133
Ethyl ether	20.0	19.8		ug/L		99	69 - 122
Tert-amyl methyl ether	20.0	18.9		ug/L		95	50 - 140
Ethyl tert-butyl ether	20.0	19.7		ug/L		98	60 - 131
di-Isopropyl ether	20.0	20.8		ug/L		104	67 - 125
tert-Butanol	200	223		ug/L		112	50 - 169

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34679/4

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	200	191		ug/L		95	28 - 150
trans-1,4-Dichloro-2-butene	20.0	18.4		ug/L		92	48 - 153
Ethanol	400	455		ug/L		114	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: LCSD 620-34679/5

Matrix: Water

Analysis Batch: 34679

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.3	*-	ug/L		82	85 - 124	9	20
Acetone	20.0	17.8	*1	ug/L		89	14 - 133	22	20
Acrylonitrile	20.0	21.6		ug/L		108	62 - 134	1	20
Benzene	20.0	21.4		ug/L		107	86 - 111	2	20
Bromobenzene	20.0	17.7		ug/L		88	82 - 120	3	20
Bromochloromethane	20.0	18.5		ug/L		93	83 - 123	9	20
Bromodichloromethane	20.0	18.9		ug/L		94	83 - 137	4	20
Bromoform	20.0	17.8	*-	ug/L		89	91 - 137	3	20
Bromomethane	20.0	13.0		ug/L		65	29 - 148	2	20
2-Butanone (MEK)	20.0	16.6		ug/L		83	10 - 200	20	20
n-Butylbenzene	20.0	22.9		ug/L		115	85 - 138	4	20
sec-Butylbenzene	20.0	18.8		ug/L		94	75 - 118	4	20
tert-Butylbenzene	20.0	19.1		ug/L		96	85 - 122	2	20
Carbon disulfide	20.0	16.6		ug/L		83	69 - 150	9	20
Carbon tetrachloride	20.0	18.3		ug/L		92	84 - 123	5	20
Chlorobenzene	20.0	18.4	*-	ug/L		92	93 - 115	4	20
Chloroethane	20.0	16.3		ug/L		82	56 - 155	6	20
Chloroform	20.0	19.9		ug/L		99	84 - 116	5	20
Chloromethane	20.0	14.3		ug/L		71	45 - 138	10	20
2-Chlorotoluene	20.0	21.3		ug/L		106	88 - 116	4	20
4-Chlorotoluene	20.0	20.8		ug/L		104	81 - 128	4	20
1,2-Dibromo-3-Chloropropane	20.0	16.2		ug/L		81	70 - 139	11	20
Dibromochloromethane	20.0	18.5		ug/L		92	83 - 132	3	20
1,2-Dibromoethane (EDB)	20.0	20.1		ug/L		100	82 - 125	3	20
Dibromomethane	20.0	19.7		ug/L		98	80 - 125	3	20
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	84 - 128	4	20
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	85 - 120	3	20
1,4-Dichlorobenzene	20.0	18.1		ug/L		91	86 - 116	4	20
Dichlorodifluoromethane (Freon 12)	20.0	12.1		ug/L		60	36 - 131	9	20
1,1-Dichloroethane	20.0	20.6		ug/L		103	81 - 120	7	20
1,2-Dichloroethane	20.0	17.8		ug/L		89	82 - 116	2	20
1,1-Dichloroethene	20.0	19.7		ug/L		99	83 - 120	8	20

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34679/5

Matrix: Water

Analysis Batch: 34679

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 Limit
cis-1,2-Dichloroethene	20.0	22.0		ug/L		110	81 - 124	6	20
trans-1,2-Dichloroethene	20.0	21.1		ug/L		105	81 - 127	6	20
1,2-Dichloropropane	20.0	21.7		ug/L		109	76 - 132	4	20
1,3-Dichloropropane	20.0	20.4		ug/L		102	74 - 122	2	20
2,2-Dichloropropane	20.0	18.9		ug/L		95	77 - 130	6	20
1,1-Dichloropropene	20.0	20.9		ug/L		104	81 - 115	3	20
cis-1,3-Dichloropropene	20.0	22.2		ug/L		111	74 - 129	1	20
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	78 - 126	2	20
Ethylbenzene	20.0	20.4		ug/L		102	89 - 117	4	20
Hexachlorobutadiene	20.0	17.6		ug/L		88	77 - 118	5	20
2-Hexanone (MBK)	20.0	17.7		ug/L		88	37 - 123	15	20
Isopropylbenzene	20.0	19.0		ug/L		95	83 - 117	3	20
4-Isopropyltoluene	20.0	20.4		ug/L		102	83 - 124	7	20
Methyl tert-butyl ether	20.0	21.2		ug/L		106	70 - 126	6	20
4-Methyl-2-pentanone (MIBK)	20.0	19.7		ug/L		99	59 - 118	10	20
Methylene Chloride	20.0	19.0		ug/L		95	75 - 121	9	20
Naphthalene	20.0	20.2		ug/L		101	67 - 123	4	20
N-Propylbenzene	20.0	21.1		ug/L		105	84 - 128	3	20
Styrene	20.0	19.1		ug/L		95	78 - 127	2	20
1,1,1,2-Tetrachloroethane	20.0	17.8	*	ug/L		89	91 - 118	3	20
1,1,2,2-Tetrachloroethane	20.0	16.9		ug/L		84	77 - 129	6	20
Tetrachloroethene	20.0	18.8		ug/L		94	85 - 116	3	20
Toluene	20.0	19.6		ug/L		98	88 - 109	2	20
1,2,3-Trichlorobenzene	20.0	20.3		ug/L		101	67 - 134	1	20
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	78 - 133	1	20
1,3,5-Trichlorobenzene	20.0	20.1		ug/L		101	77 - 127	6	20
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	83 - 124	5	20
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	84 - 132	3	20
Trichloroethene	20.0	17.9		ug/L		89	74 - 118	3	20
Trichlorofluoromethane (Freon 11)	20.0	16.5		ug/L		83	82 - 126	8	20
1,2,3-Trichloropropane	20.0	17.8		ug/L		89	77 - 124	2	20
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	89 - 126	4	20
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	89 - 125	3	20
Vinyl chloride	20.0	17.5		ug/L		87	62 - 130	7	20
m,p-Xylene	40.0	45.6		ug/L		114	85 - 123	4	20
o-Xylene	20.0	20.0		ug/L		100	85 - 119	4	20
Tetrahydrofuran	20.0	19.5		ug/L		97	60 - 133	4	20
Ethyl ether	20.0	18.8		ug/L		94	69 - 122	5	20
Tert-amyl methyl ether	20.0	18.8		ug/L		94	50 - 140	1	20
Ethyl tert-butyl ether	20.0	18.6		ug/L		93	60 - 131	5	20
di-Isopropyl ether	20.0	18.8		ug/L		94	67 - 125	10	20
tert-Butanol	200	200		ug/L		100	50 - 169	11	20
1,4-Dioxane	200	163		ug/L		81	28 - 150	16	20
trans-1,4-Dichloro-2-butene	20.0	17.1		ug/L		86	48 - 153	7	20
Ethanol	400	340	*1	ug/L		85	47 - 170	29	20

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34679/5

Matrix: Water

Analysis Batch: 34679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-34683/3-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34683

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Acetone	ND		500	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Acrylonitrile	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Benzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Bromobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Bromochloromethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Bromodichloromethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Bromoform	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Bromomethane	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
2-Butanone (MEK)	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
n-Butylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
sec-Butylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
tert-Butylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Carbon disulfide	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Carbon tetrachloride	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Chlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Chloroethane	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Chloroform	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Chloromethane	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
2-Chlorotoluene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
4-Chlorotoluene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Dibromochloromethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Dibromomethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2-Dichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,3-Dichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,4-Dichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1-Dichloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2-Dichloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1-Dichloroethene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2-Dichloropropane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,3-Dichloropropane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
2,2-Dichloropropane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1-Dichloropropene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34683/3-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34683

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Ethylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Hexachlorobutadiene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
2-Hexanone (MBK)	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Isopropylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
4-Isopropyltoluene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Methyl tert-butyl ether	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Methylene Chloride	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Naphthalene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
N-Propylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Styrene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Tetrachloroethene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Toluene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1,1-Trichloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,1,2-Trichloroethane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Trichloroethene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2,3-Trichloropropane	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Vinyl chloride	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
m,p-Xylene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
o-Xylene	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Tetrahydrofuran	ND		100	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Ethyl ether	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Tert-amyl methyl ether	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Ethyl tert-butyl ether	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
di-Isopropyl ether	ND		50	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
tert-Butanol	ND		1000	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
1,4-Dioxane	ND		1000	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		05/14/24 07:42	05/14/24 09:54	1
Ethanol	ND		10000	ug/Kg		05/14/24 07:42	05/14/24 09:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/14/24 07:42	05/14/24 09:54	1
Toluene-d8 (Surr)	99		70 - 130	05/14/24 07:42	05/14/24 09:54	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	05/14/24 07:42	05/14/24 09:54	1
Dibromofluoromethane (Surr)	99		70 - 130	05/14/24 07:42	05/14/24 09:54	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34683/1-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	1030		ug/Kg		103	91 - 125
Acetone	1000	1670	*+	ug/Kg		167	47 - 157
Acrylonitrile	1000	1430	*+	ug/Kg		143	79 - 129
Benzene	1000	1230		ug/Kg		123	88 - 130
Bromobenzene	1000	967		ug/Kg		97	81 - 125
Bromochloromethane	1000	1140		ug/Kg		114	85 - 139
Bromodichloromethane	1000	1070		ug/Kg		107	84 - 134
Bromoform	1000	1010		ug/Kg		101	83 - 131
Bromomethane	1000	1020		ug/Kg		102	63 - 157
2-Butanone (MEK)	1000	1580		ug/Kg		158	58 - 161
n-Butylbenzene	1000	1090		ug/Kg		109	83 - 137
sec-Butylbenzene	1000	997		ug/Kg		100	79 - 131
tert-Butylbenzene	1000	1010		ug/Kg		101	82 - 131
Carbon disulfide	1000	1100		ug/Kg		110	82 - 135
Carbon tetrachloride	1000	1020		ug/Kg		102	77 - 139
Chlorobenzene	1000	1000		ug/Kg		100	85 - 121
Chloroethane	1000	1060		ug/Kg		106	61 - 156
Chloroform	1000	1190		ug/Kg		119	89 - 123
Chloromethane	1000	1050		ug/Kg		105	81 - 130
2-Chlorotoluene	1000	1120		ug/Kg		112	90 - 117
4-Chlorotoluene	1000	1130		ug/Kg		113	88 - 121
1,2-Dibromo-3-Chloropropane	1000	908		ug/Kg		91	75 - 142
Dibromochloromethane	1000	1020		ug/Kg		102	85 - 131
1,2-Dibromoethane (EDB)	1000	1160		ug/Kg		116	85 - 133
Dibromomethane	1000	1140		ug/Kg		114	90 - 128
1,2-Dichlorobenzene	1000	1080		ug/Kg		108	88 - 128
1,3-Dichlorobenzene	1000	1050		ug/Kg		105	78 - 133
1,4-Dichlorobenzene	1000	981		ug/Kg		98	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	855		ug/Kg		85	55 - 159
1,1-Dichloroethane	1000	1180		ug/Kg		118	89 - 129
1,2-Dichloroethane	1000	1080		ug/Kg		108	82 - 137
1,1-Dichloroethene	1000	1100		ug/Kg		110	82 - 138
cis-1,2-Dichloroethene	1000	1200		ug/Kg		120	79 - 133
trans-1,2-Dichloroethene	1000	1150		ug/Kg		115	81 - 137
1,2-Dichloropropane	1000	1210		ug/Kg		121	89 - 128
1,3-Dichloropropane	1000	1200		ug/Kg		120	86 - 133
2,2-Dichloropropane	1000	1110		ug/Kg		111	91 - 131
1,1-Dichloropropene	1000	1250		ug/Kg		125	75 - 137
cis-1,3-Dichloropropene	1000	1210		ug/Kg		121	84 - 122
trans-1,3-Dichloropropene	1000	1240	*+	ug/Kg		124	90 - 121
Ethylbenzene	1000	1090		ug/Kg		109	89 - 126
Hexachlorobutadiene	1000	950		ug/Kg		95	74 - 131
2-Hexanone (MBK)	1000	1570		ug/Kg		157	41 - 167
Isopropylbenzene	1000	984		ug/Kg		98	88 - 125
4-Isopropyltoluene	1000	1070		ug/Kg		107	86 - 128
Methyl tert-butyl ether	1000	1270		ug/Kg		127	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	1530	*+	ug/Kg		153	80 - 135

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34683/1-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	1000	1120		ug/Kg		112	87 - 119
Naphthalene	1000	1080		ug/Kg		108	60 - 145
N-Propylbenzene	1000	1120		ug/Kg		112	87 - 120
Styrene	1000	1050		ug/Kg		105	88 - 125
1,1,1,2-Tetrachloroethane	1000	1010		ug/Kg		101	81 - 128
1,1,2,2-Tetrachloroethane	1000	1050		ug/Kg		105	88 - 126
Tetrachloroethene	1000	1040		ug/Kg		104	81 - 124
Toluene	1000	1120		ug/Kg		112	84 - 124
1,2,3-Trichlorobenzene	1000	1080		ug/Kg		108	68 - 145
1,2,4-Trichlorobenzene	1000	953		ug/Kg		95	57 - 141
1,3,5-Trichlorobenzene	1000	1050		ug/Kg		105	70 - 137
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	88 - 131
1,1,2-Trichloroethane	1000	1150		ug/Kg		115	91 - 129
Trichloroethene	1000	1160		ug/Kg		116	88 - 131
Trichlorofluoromethane (Freon 11)	1000	969		ug/Kg		97	86 - 130
1,2,3-Trichloropropane	1000	1100		ug/Kg		110	92 - 126
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	87 - 126
1,3,5-Trimethylbenzene	1000	1180		ug/Kg		118	90 - 125
Vinyl chloride	1000	1120		ug/Kg		112	73 - 145
m,p-Xylene	1000	1140		ug/Kg		114	83 - 122
o-Xylene	1000	1010		ug/Kg		101	87 - 122
Tetrahydrofuran	1000	1310		ug/Kg		131	81 - 134
Ethyl ether	1000	1240		ug/Kg		124	84 - 144
Tert-amyl methyl ether	1000	1090		ug/Kg		109	69 - 151
Ethyl tert-butyl ether	1000	1120		ug/Kg		112	75 - 128
di-Isopropyl ether	1000	1190		ug/Kg		119	82 - 131
tert-Butanol	10000	13000		ug/Kg		130	85 - 148
1,4-Dioxane	10000	11000		ug/Kg		110	10 - 178
trans-1,4-Dichloro-2-butene	1000	1020		ug/Kg		102	74 - 151
Ethanol	20000	22500		ug/Kg		113	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: LCSD 620-34683/2-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	947		ug/Kg		95	91 - 125	8	30
Acetone	1000	1260		ug/Kg		126	47 - 157	28	30
Acrylonitrile	1000	1230		ug/Kg		123	79 - 129	15	30
Benzene	1000	1090		ug/Kg		109	88 - 130	12	30
Bromobenzene	1000	892		ug/Kg		89	81 - 125	8	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34683/2-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	1000	1010		ug/Kg		101	85 - 139	12	30
Bromodichloromethane	1000	959		ug/Kg		96	84 - 134	11	30
Bromoform	1000	892		ug/Kg		89	83 - 131	12	30
Bromomethane	1000	903		ug/Kg		90	63 - 157	12	30
2-Butanone (MEK)	1000	1280		ug/Kg		128	58 - 161	21	30
n-Butylbenzene	1000	1030		ug/Kg		103	83 - 137	5	30
sec-Butylbenzene	1000	916		ug/Kg		92	79 - 131	8	30
tert-Butylbenzene	1000	922		ug/Kg		92	82 - 131	9	30
Carbon disulfide	1000	969		ug/Kg		97	82 - 135	13	30
Carbon tetrachloride	1000	932		ug/Kg		93	77 - 139	9	30
Chlorobenzene	1000	912		ug/Kg		91	85 - 121	10	30
Chloroethane	1000	943		ug/Kg		94	61 - 156	11	30
Chloroform	1000	1040		ug/Kg		104	89 - 123	13	30
Chloromethane	1000	894		ug/Kg		89	81 - 130	16	30
2-Chlorotoluene	1000	1040		ug/Kg		104	90 - 117	8	30
4-Chlorotoluene	1000	1030		ug/Kg		103	88 - 121	9	30
1,2-Dibromo-3-Chloropropane	1000	815		ug/Kg		81	75 - 142	11	30
Dibromochloromethane	1000	915		ug/Kg		92	85 - 131	11	30
1,2-Dibromoethane (EDB)	1000	1010		ug/Kg		101	85 - 133	14	30
Dibromomethane	1000	975		ug/Kg		97	90 - 128	16	30
1,2-Dichlorobenzene	1000	997		ug/Kg		100	88 - 128	8	30
1,3-Dichlorobenzene	1000	946		ug/Kg		95	78 - 133	10	30
1,4-Dichlorobenzene	1000	908		ug/Kg		91	88 - 121	8	30
Dichlorodifluoromethane (Freon 12)	1000	776		ug/Kg		78	55 - 159	10	30
1,1-Dichloroethane	1000	1050		ug/Kg		105	89 - 129	11	30
1,2-Dichloroethane	1000	945		ug/Kg		94	82 - 137	13	30
1,1-Dichloroethene	1000	993		ug/Kg		99	82 - 138	11	30
cis-1,2-Dichloroethene	1000	1070		ug/Kg		107	79 - 133	11	30
trans-1,2-Dichloroethene	1000	1010		ug/Kg		101	81 - 137	12	30
1,2-Dichloropropane	1000	1090		ug/Kg		109	89 - 128	11	30
1,3-Dichloropropane	1000	1050		ug/Kg		105	86 - 133	13	30
2,2-Dichloropropane	1000	999		ug/Kg		100	91 - 131	11	30
1,1-Dichloropropene	1000	1140		ug/Kg		114	75 - 137	9	30
cis-1,3-Dichloropropene	1000	1100		ug/Kg		110	84 - 122	9	30
trans-1,3-Dichloropropene	1000	1090		ug/Kg		109	90 - 121	13	30
Ethylbenzene	1000	1010		ug/Kg		101	89 - 126	8	30
Hexachlorobutadiene	1000	891		ug/Kg		89	74 - 131	6	30
2-Hexanone (MBK)	1000	1160		ug/Kg		116	41 - 167	30	30
Isopropylbenzene	1000	928		ug/Kg		93	88 - 125	6	30
4-Isopropyltoluene	1000	1030		ug/Kg		103	86 - 128	4	30
Methyl tert-butyl ether	1000	1130		ug/Kg		113	74 - 144	12	30
4-Methyl-2-pentanone (MIBK)	1000	1120	*1	ug/Kg		112	80 - 135	31	30
Methylene Chloride	1000	969		ug/Kg		97	87 - 119	14	30
Naphthalene	1000	1020		ug/Kg		102	60 - 145	5	30
N-Propylbenzene	1000	1020		ug/Kg		102	87 - 120	9	30
Styrene	1000	941		ug/Kg		94	88 - 125	11	30
1,1,1,2-Tetrachloroethane	1000	924		ug/Kg		92	81 - 128	9	30
1,1,2,2-Tetrachloroethane	1000	914		ug/Kg		91	88 - 126	14	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34683/2-A

Matrix: Solid

Analysis Batch: 34684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	1000	944		ug/Kg		94	81 - 124	9	30
Toluene	1000	979		ug/Kg		98	84 - 124	14	30
1,2,3-Trichlorobenzene	1000	1000		ug/Kg		100	68 - 145	7	30
1,2,4-Trichlorobenzene	1000	899		ug/Kg		90	57 - 141	6	30
1,3,5-Trichlorobenzene	1000	971		ug/Kg		97	70 - 137	8	30
1,1,1-Trichloroethane	1000	955		ug/Kg		95	88 - 131	9	30
1,1,2-Trichloroethane	1000	982		ug/Kg		98	91 - 129	16	30
Trichloroethene	1000	968		ug/Kg		97	88 - 131	18	30
Trichlorofluoromethane (Freon 11)	1000	910		ug/Kg		91	86 - 130	6	30
1,2,3-Trichloropropane	1000	946		ug/Kg		95	92 - 126	15	30
1,2,4-Trimethylbenzene	1000	940		ug/Kg		94	87 - 126	9	30
1,3,5-Trimethylbenzene	1000	1060		ug/Kg		106	90 - 125	10	30
Vinyl chloride	1000	1020		ug/Kg		102	73 - 145	10	30
m,p-Xylene	1000	1050		ug/Kg		105	83 - 122	8	30
o-Xylene	1000	945		ug/Kg		95	87 - 122	6	30
Tetrahydrofuran	1000	1140		ug/Kg		114	81 - 134	14	30
Ethyl ether	1000	1100		ug/Kg		110	84 - 144	12	30
Tert-amyl methyl ether	1000	977		ug/Kg		98	69 - 151	11	30
Ethyl tert-butyl ether	1000	1020		ug/Kg		102	75 - 128	9	30
di-Isopropyl ether	1000	1080		ug/Kg		108	82 - 131	9	30
tert-Butanol	10000	10900		ug/Kg		109	85 - 148	18	30
1,4-Dioxane	10000	9140		ug/Kg		91	10 - 178	19	30
trans-1,4-Dichloro-2-butene	1000	856		ug/Kg		86	74 - 151	18	30
Ethanol	20000	21000		ug/Kg		105	83 - 135	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

Lab Sample ID: MB 620-34686/3-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34686

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Acetone	ND		50	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Acrylonitrile	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Benzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Bromobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Bromochloromethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Bromodichloromethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Bromoform	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Bromomethane	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
2-Butanone (MEK)	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
n-Butylbenzene	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34686/3-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34686

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
tert-Butylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Carbon disulfide	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Carbon tetrachloride	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Chlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Chloroethane	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Chloroform	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Chloromethane	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
2-Chlorotoluene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
4-Chlorotoluene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Dibromochloromethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Dibromomethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1-Dichloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2-Dichloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1-Dichloroethene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2-Dichloropropane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,3-Dichloropropane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
2,2-Dichloropropane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1-Dichloropropene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Ethylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Hexachlorobutadiene	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
2-Hexanone (MBK)	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Isopropylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
4-Isopropyltoluene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Methylene Chloride	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Naphthalene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
N-Propylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Styrene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Tetrachloroethene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Toluene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: MB 620-34686/3-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34686

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Vinyl chloride	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
m,p-Xylene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
o-Xylene	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Tetrahydrofuran	ND		10	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Ethyl ether	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
di-Isopropyl ether	ND		5.0	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
tert-Butanol	ND		100	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
1,4-Dioxane	ND		100	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		05/14/24 07:44	05/14/24 10:38	1
Ethanol	ND		1000	ug/Kg		05/14/24 07:44	05/14/24 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/14/24 07:44	05/14/24 10:38	1
Toluene-d8 (Surr)	99		70 - 130	05/14/24 07:44	05/14/24 10:38	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	05/14/24 07:44	05/14/24 10:38	1
Dibromofluoromethane (Surr)	103		70 - 130	05/14/24 07:44	05/14/24 10:38	1

Lab Sample ID: LCS 620-34686/1-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.1		ug/Kg		101	70 - 130
Acetone	20.0	15.9	J	ug/Kg		79	70 - 130
Acrylonitrile	20.0	19.0		ug/Kg		95	70 - 130
Benzene	20.0	20.3		ug/Kg		101	70 - 130
Bromobenzene	20.0	19.6		ug/Kg		98	70 - 130
Bromochloromethane	20.0	20.5		ug/Kg		103	70 - 130
Bromodichloromethane	20.0	19.8		ug/Kg		99	70 - 130
Bromoform	20.0	18.6		ug/Kg		93	70 - 130
Bromomethane	20.0	19.7		ug/Kg		98	70 - 130
2-Butanone (MEK)	20.0	16.7		ug/Kg		83	70 - 130
n-Butylbenzene	20.0	18.1		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 130
tert-Butylbenzene	20.0	19.1		ug/Kg		96	70 - 130
Carbon disulfide	20.0	19.8		ug/Kg		99	70 - 130
Carbon tetrachloride	20.0	20.2		ug/Kg		101	70 - 130
Chlorobenzene	20.0	19.3		ug/Kg		97	70 - 130
Chloroethane	20.0	20.0		ug/Kg		100	70 - 130
Chloroform	20.0	19.9		ug/Kg		99	70 - 130
Chloromethane	20.0	16.2		ug/Kg		81	70 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34686/1-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	19.4		ug/Kg		97	70 - 130
4-Chlorotoluene	20.0	19.5		ug/Kg		98	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/Kg		90	70 - 130
Dibromochloromethane	20.0	19.6		ug/Kg		98	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.0		ug/Kg		100	70 - 130
Dibromomethane	20.0	19.7		ug/Kg		98	70 - 130
1,2-Dichlorobenzene	20.0	18.9		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	20.0	20.2		ug/Kg		101	70 - 130
1,4-Dichlorobenzene	20.0	18.9		ug/Kg		95	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	13.9		ug/Kg		70	70 - 130
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	70 - 130
1,2-Dichloroethane	20.0	20.5		ug/Kg		103	70 - 130
1,1-Dichloroethene	20.0	19.4		ug/Kg		97	70 - 130
cis-1,2-Dichloroethene	20.0	19.4		ug/Kg		97	70 - 130
trans-1,2-Dichloroethene	20.0	19.4		ug/Kg		97	70 - 130
1,2-Dichloropropane	20.0	19.0		ug/Kg		95	70 - 130
1,3-Dichloropropane	20.0	19.2		ug/Kg		96	70 - 130
2,2-Dichloropropane	20.0	19.9		ug/Kg		100	70 - 130
1,1-Dichloropropene	20.0	19.8		ug/Kg		99	70 - 130
cis-1,3-Dichloropropene	20.0	16.5		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	20.0	19.0		ug/Kg		95	70 - 130
Ethylbenzene	20.0	19.9		ug/Kg		100	70 - 130
Hexachlorobutadiene	20.0	17.7		ug/Kg		88	70 - 130
2-Hexanone (MBK)	20.0	12.6	*-	ug/Kg		63	70 - 130
Isopropylbenzene	20.0	18.6		ug/Kg		93	70 - 130
4-Isopropyltoluene	20.0	17.9		ug/Kg		89	70 - 130
Methyl tert-butyl ether	20.0	18.3		ug/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	15.5		ug/Kg		77	70 - 130
Methylene Chloride	20.0	19.7		ug/Kg		98	70 - 130
Naphthalene	20.0	17.8		ug/Kg		89	70 - 130
N-Propylbenzene	20.0	20.1		ug/Kg		101	70 - 130
Styrene	20.0	18.6		ug/Kg		93	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/Kg		102	70 - 130
Tetrachloroethene	20.0	19.3		ug/Kg		97	70 - 130
Toluene	20.0	20.1		ug/Kg		100	70 - 130
1,2,3-Trichlorobenzene	20.0	19.5		ug/Kg		98	70 - 130
1,2,4-Trichlorobenzene	20.0	19.2		ug/Kg		96	70 - 130
1,3,5-Trichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		101	70 - 130
1,1,2-Trichloroethane	20.0	19.8		ug/Kg		99	70 - 130
Trichloroethene	20.0	19.9		ug/Kg		100	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	20.5		ug/Kg		102	70 - 130
1,2,3-Trichloropropane	20.0	21.0		ug/Kg		105	70 - 130
1,2,4-Trimethylbenzene	20.0	19.5		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	20.0	19.5		ug/Kg		98	70 - 130
Vinyl chloride	20.0	19.3		ug/Kg		96	70 - 130

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCS 620-34686/1-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylene	20.0	18.8		ug/Kg		94	70 - 130
o-Xylene	20.0	18.1		ug/Kg		91	70 - 130
Tetrahydrofuran	20.0	17.7		ug/Kg		89	70 - 130
Ethyl ether	20.0	20.0		ug/Kg		100	70 - 130
Tert-amyl methyl ether	20.0	17.8		ug/Kg		89	70 - 130
Ethyl tert-butyl ether	20.0	17.3		ug/Kg		87	70 - 130
di-Isopropyl ether	20.0	17.7		ug/Kg		88	70 - 130
tert-Butanol	200	180		ug/Kg		90	70 - 130
1,4-Dioxane	200	155		ug/Kg		77	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.3	J	ug/Kg		102	70 - 130
Ethanol	400	399	J	ug/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Lab Sample ID: LCSD 620-34686/2-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.7		ug/Kg		93	70 - 130	7	30
Acetone	20.0	18.9	J	ug/Kg		94	70 - 130	17	30
Acrylonitrile	20.0	19.7		ug/Kg		98	70 - 130	3	30
Benzene	20.0	20.3		ug/Kg		102	70 - 130	0	30
Bromobenzene	20.0	18.5		ug/Kg		93	70 - 130	6	30
Bromochloromethane	20.0	20.2		ug/Kg		101	70 - 130	2	30
Bromodichloromethane	20.0	19.6		ug/Kg		98	70 - 130	1	30
Bromoform	20.0	18.2		ug/Kg		91	70 - 130	2	30
Bromomethane	20.0	19.3		ug/Kg		96	70 - 130	2	30
2-Butanone (MEK)	20.0	19.8		ug/Kg		99	70 - 130	17	30
n-Butylbenzene	20.0	16.9		ug/Kg		85	70 - 130	7	30
sec-Butylbenzene	20.0	18.2		ug/Kg		91	70 - 130	5	30
tert-Butylbenzene	20.0	19.0		ug/Kg		95	70 - 130	1	30
Carbon disulfide	20.0	19.5		ug/Kg		98	70 - 130	1	30
Carbon tetrachloride	20.0	19.7		ug/Kg		99	70 - 130	2	30
Chlorobenzene	20.0	18.6		ug/Kg		93	70 - 130	4	30
Chloroethane	20.0	19.9		ug/Kg		99	70 - 130	1	30
Chloroform	20.0	19.8		ug/Kg		99	70 - 130	0	30
Chloromethane	20.0	16.3		ug/Kg		81	70 - 130	0	30
2-Chlorotoluene	20.0	18.7		ug/Kg		94	70 - 130	3	30
4-Chlorotoluene	20.0	18.2		ug/Kg		91	70 - 130	7	30
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/Kg		94	70 - 130	5	30
Dibromochloromethane	20.0	19.3		ug/Kg		97	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	19.4		ug/Kg		97	70 - 130	3	30
Dibromomethane	20.0	19.6		ug/Kg		98	70 - 130	0	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34686/2-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130	3	30
1,3-Dichlorobenzene	20.0	18.6		ug/Kg		93	70 - 130	8	30
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		90	70 - 130	6	30
Dichlorodifluoromethane (Freon 12)	20.0	13.1	*-	ug/Kg		65	70 - 130	6	30
1,1-Dichloroethane	20.0	20.4		ug/Kg		102	70 - 130	1	30
1,2-Dichloroethane	20.0	20.3		ug/Kg		101	70 - 130	1	30
1,1-Dichloroethene	20.0	19.5		ug/Kg		97	70 - 130	1	30
cis-1,2-Dichloroethene	20.0	20.0		ug/Kg		100	70 - 130	3	30
trans-1,2-Dichloroethene	20.0	19.6		ug/Kg		98	70 - 130	1	30
1,2-Dichloropropane	20.0	19.4		ug/Kg		97	70 - 130	2	30
1,3-Dichloropropane	20.0	18.8		ug/Kg		94	70 - 130	2	30
2,2-Dichloropropane	20.0	19.9		ug/Kg		100	70 - 130	0	30
1,1-Dichloropropene	20.0	19.8		ug/Kg		99	70 - 130	0	30
cis-1,3-Dichloropropene	20.0	17.5		ug/Kg		87	70 - 130	6	30
trans-1,3-Dichloropropene	20.0	19.0		ug/Kg		95	70 - 130	0	30
Ethylbenzene	20.0	19.0		ug/Kg		95	70 - 130	5	30
Hexachlorobutadiene	20.0	17.7		ug/Kg		89	70 - 130	0	30
2-Hexanone (MBK)	20.0	17.0		ug/Kg		85	70 - 130	30	30
Isopropylbenzene	20.0	18.1		ug/Kg		91	70 - 130	2	30
4-Isopropyltoluene	20.0	17.3		ug/Kg		87	70 - 130	3	30
Methyl tert-butyl ether	20.0	19.0		ug/Kg		95	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	20.0	17.7		ug/Kg		88	70 - 130	13	30
Methylene Chloride	20.0	20.1		ug/Kg		100	70 - 130	2	30
Naphthalene	20.0	18.6		ug/Kg		93	70 - 130	4	30
N-Propylbenzene	20.0	18.8		ug/Kg		94	70 - 130	7	30
Styrene	20.0	18.0		ug/Kg		90	70 - 130	3	30
1,1,1,2-Tetrachloroethane	20.0	18.5		ug/Kg		92	70 - 130	4	30
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/Kg		97	70 - 130	5	30
Tetrachloroethene	20.0	18.2		ug/Kg		91	70 - 130	6	30
Toluene	20.0	19.8		ug/Kg		99	70 - 130	1	30
1,2,3-Trichlorobenzene	20.0	19.2		ug/Kg		96	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	17.6		ug/Kg		88	70 - 130	9	30
1,3,5-Trichlorobenzene	20.0	16.9		ug/Kg		85	70 - 130	8	30
1,1,1-Trichloroethane	20.0	20.2		ug/Kg		101	70 - 130	0	30
1,1,2-Trichloroethane	20.0	19.6		ug/Kg		98	70 - 130	1	30
Trichloroethene	20.0	19.7		ug/Kg		98	70 - 130	1	30
Trichlorofluoromethane (Freon 11)	20.0	19.7		ug/Kg		98	70 - 130	4	30
1,2,3-Trichloropropane	20.0	20.9		ug/Kg		104	70 - 130	0	30
1,2,4-Trimethylbenzene	20.0	18.4		ug/Kg		92	70 - 130	6	30
1,3,5-Trimethylbenzene	20.0	18.5		ug/Kg		92	70 - 130	6	30
Vinyl chloride	20.0	19.0		ug/Kg		95	70 - 130	2	30
m,p-Xylene	20.0	18.1		ug/Kg		91	70 - 130	4	30
o-Xylene	20.0	18.0		ug/Kg		90	70 - 130	1	30
Tetrahydrofuran	20.0	18.4		ug/Kg		92	70 - 130	4	30
Ethyl ether	20.0	20.1		ug/Kg		100	70 - 130	0	30
Tert-amyl methyl ether	20.0	18.1		ug/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether	20.0	18.1		ug/Kg		90	70 - 130	4	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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

Lab Sample ID: LCSD 620-34686/2-A

Matrix: Solid

Analysis Batch: 34687

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
di-Isopropyl ether	20.0	18.4		ug/Kg		92	70 - 130	4	30
tert-Butanol	200	178		ug/Kg		89	70 - 130	1	30
1,4-Dioxane	200	164		ug/Kg		82	70 - 130	6	30
trans-1,4-Dichloro-2-butene	20.0	19.9	J	ug/Kg		100	70 - 130	2	30
Ethanol	400	365	J	ug/Kg		91	70 - 130	9	30

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

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

GC/MS VOA

Pre Prep Batch: 34479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2	4R Day 15 KC	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 34620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-1	4R Day 15 KC	Total/NA	Water	8260C	
620-18466-3	6A/1R Day 15 KC	Total/NA	Water	8260C	
MB 620-34620/7	Method Blank	Total/NA	Water	8260C	
LCS 620-34620/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-34620/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 34679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-1 - DL	4R Day 15 KC	Total/NA	Water	8260C	
620-18466-3 - DL	6A/1R Day 15 KC	Total/NA	Water	8260C	
MB 620-34679/7	Method Blank	Total/NA	Water	8260C	
LCS 620-34679/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-34679/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Prep Batch: 34683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2 - ME	4R Day 15 KC	Total/NA	Solid	5035	
620-18466-4 - DL	6A/1R Day 15 KC	Total/NA	Solid	5035	
620-18466-4 - ME	6A/1R Day 15 KC	Total/NA	Solid	5035	
MB 620-34683/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-34683/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-34683/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 34684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2 - ME	4R Day 15 KC	Total/NA	Solid	8260C	34683
620-18466-4 - ME	6A/1R Day 15 KC	Total/NA	Solid	8260C	34683
620-18466-4 - DL	6A/1R Day 15 KC	Total/NA	Solid	8260C	34683
MB 620-34683/3-A	Method Blank	Total/NA	Solid	8260C	34683
LCS 620-34683/1-A	Lab Control Sample	Total/NA	Solid	8260C	34683
LCSD 620-34683/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	34683

Prep Batch: 34686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2	4R Day 15 KC	Total/NA	Solid	5035	34479
MB 620-34686/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-34686/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-34686/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 34687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2	4R Day 15 KC	Total/NA	Solid	8260C	34686
MB 620-34686/3-A	Method Blank	Total/NA	Solid	8260C	34686
LCS 620-34686/1-A	Lab Control Sample	Total/NA	Solid	8260C	34686
LCSD 620-34686/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	34686

Eurofins Rhode Island

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

General Chemistry

Analysis Batch: 34492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18466-2	4R Day 15 KC	Total/NA	Solid	Moisture	
620-18466-4	6A/1R Day 15 KC	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Client Sample ID: 4R Day 15 KC

Date Collected: 05/06/24 09:08

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	34620	CLR	EET RI	05/11/24 18:27
Total/NA	Analysis	8260C	DL	100	34679	CLR	EET RI	05/13/24 21:05

Client Sample ID: 4R Day 15 KC

Date Collected: 05/06/24 09:20

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	34492	MEM	EET RI	05/08/24 10:02

Client Sample ID: 4R Day 15 KC

Date Collected: 05/06/24 09:20

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-2

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			34479	KFS	EET RI	05/07/24 19:15
Total/NA	Prep	5035			34686	CLR	EET RI	05/14/24 07:44
Total/NA	Analysis	8260C		1	34687	CLR	EET RI	05/14/24 11:26
Total/NA	Prep	5035	ME		34683	CLR	EET RI	05/14/24 10:14
Total/NA	Analysis	8260C	ME	1	34684	CLR	EET RI	05/14/24 10:55

Client Sample ID: 6A/1R Day 15 KC

Date Collected: 05/06/24 09:18

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	34620	CLR	EET RI	05/11/24 18:53
Total/NA	Analysis	8260C	DL	50	34679	CLR	EET RI	05/13/24 21:32

Client Sample ID: 6A/1R Day 15 KC

Date Collected: 05/06/24 09:30

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	34492	MEM	EET RI	05/08/24 10:02

Client Sample ID: 6A/1R Day 15 KC

Date Collected: 05/06/24 09:30

Date Received: 05/07/24 16:43

Lab Sample ID: 620-18466-4

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		34683	CLR	EET RI	05/14/24 10:14
Total/NA	Analysis	8260C	ME	1	34684	CLR	EET RI	05/14/24 11:20
Total/NA	Prep	5035	DL		34683	CLR	EET RI	05/14/24 10:14
Total/NA	Analysis	8260C	DL	2	34684	CLR	EET RI	05/14/24 12:35

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

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: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	Tetrachloroethene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Rhode Island

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
Moisture	Percent Moisture	EPA	EET RI
5030C	Purge and Trap	SW846	EET RI
5035	Closed System Purge and Trap	SW846	EET RI
Frozen Preserve	Freezing Samples	None	EET RI

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

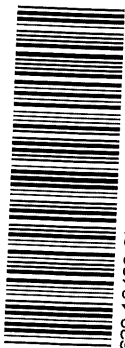
Sample Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18466-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-18466-1	4R Day 15 KC	Water	05/06/24 09:08	05/07/24 16:43
620-18466-2	4R Day 15 KC	Solid	05/06/24 09:20	05/07/24 16:43
620-18466-3	6A/1R Day 15 KC	Water	05/06/24 09:18	05/07/24 16:43
620-18466-4	6A/1R Day 15 KC	Solid	05/06/24 09:30	05/07/24 16:43

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620-18466 Chain of Custody

18466

Special Handling:

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed

All IATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

CHAIN OF CUSTODY RECORD

nent Testing

gland

Page 1 of 1

Report To Laurel Crawford (lcrawford@loureiro.com)

Loureiro Engineering Associates, Inc
112 Corporate Drive, Unit 2

Portsmouth, NH 03801

Telephone # 603-778-1100

Project Mgr: Laurel Crawford

Invoice To Accounts Payable (accounts payable@loureiro.com)

Loureiro Engineering Associates, Inc
100 Northwest Drive

Plainville, CT 06062

P O No 1260 Quote #

Project No 026EE3 01

Site Name Zip Zip Mini Mart Site

Location Portsmouth

Sampler(s) Laurel Crawford

State NH

F=Field Filtered 1=Na₂SO₄ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= terracore kit 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

List Preservative Code below:

Containers

Analysis

QA/QC Reporting Notes:
* additional charges may apply

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No

☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other _____
State-specific reporting standards

Lab ID:	G= Grab		C= Composite		Type
	Sample ID:	Date:	Time:		
-1	4R Day 15 KC	5/6/2024	9 08 AM		GW
-2	4R Day 15 KC	5/6/2024	9 20 AM		SO
-3	6A/1R Day 15 KC	5/6/2024	9 18 AM		GW
-4	6A/1R Day 15 KC	5/6/2024	9 30 AM		SO

of Amber Glass

of Clear Glass

of Plastic

8260C VOCs

x

x

x

x

Relinquished by:

Received by:

Date:

Time:

Temp °C

Laurel Crawford

[Signature]

5/7/24 13:20
5/7/24 16:43

Observed 2.8
Corrected 2.6

☐ EDD format
☒ E-mail to lcrawford@loureiro.com, acdunne@loureiro.com

Condition upon receipt: ☐ Present ☐ Intact ☐ Broken
☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample Shipping Address: 126 Myron Street West Springfield, MA 01089 • 413-789-3018

Lab Address: 646 Camp Ave North Kingstown, RI 02852

www.EurofinsUS.com/Spectrum

Rev. Jan 2020

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-18466-1

Login Number: 18466

List Number: 1

Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

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JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-17406-1

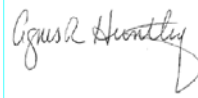
Eurofins New England

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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Authorized for release by
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Agnes.Huntley@et.eurofinsus.com
Designee for
Becky Mason, Project Manager II
Becky.Mason@et.eurofinsus.com
(413)572-4000

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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

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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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/14/2024 5:41 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 0.6°C.

GC/MS VOA

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-32793 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113) and 1,1,1,2-Tetrachloroethane. These analytes were biased low in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-32793 recovered outside control limits for the following analytes: 1,1,2-Trichloro-1,2,2-trifluoroethane. This analyte was biased low in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32793 exhibited % difference of > 20% for the following analytes: m,p-Xylene and trans-1,4-Dichloro-2-butene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The following samples were diluted due to the nature of the sample matrix (excessive foaming and dark yellow tint): EA6/1R Day 30, 0.5x (620-17406-1) and EA6/1R Day 30, 2x (620-17406-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): m,p-Xylenes, Acrylonitrile, trans-1,3-Dichloropropene, 4-Chlorotoluene, and trans-1,4-Dichloro-2-butene. (CCVIS 620-32936/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-32936 recovered outside control limits for the following analytes: m,p-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The following samples were diluted due to the nature of the sample matrix (excessive foaming, strong odor, and dark yellow): 4R Day 30, 0.5x (620-17406-6), 4R Day 30, 1x (620-17406-7), 4R Day 30, 2x (620-17406-8) and 4R Day 30, 3x (620-17406-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-32894 recovered outside in-house control limits for the following analytes: Chlorobenzene and 1,1,2-Trichloro-1,2,2-trifluoroethane. These analytes were biased low in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-32894 recovered outside in-house control

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Case Narrative

Client: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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limits for the following analytes: Chlorobenzene, 1,1,1,2-Tetrachloroethane, and 1,1,2-Trichloro-1,2,2-trifluoroethane. These analytes were biased low in the LCSD and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32894 exhibited % difference of > 20% for the following analytes: m,p-Xylene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): 2-Methyl-2-propanol and trans-1,4-Dichloro-2-butene. (CCVIS 620-32894/3)

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32941 exhibited % difference of > 20% for the following analytes: trans-1,3-Dichloropropene and m,p-Xylene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-32972 and analytical batch 620-32941 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113) and m,p-Xylene. These analytes were biased high/low in the LCS, but recovered within 70-130%. According to 8260C requirement, analytes are allowed to recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCS) for preparation batch 620-32972 and analytical batch 620-32941 recovered outside control limits for the following analyte: 1,1,2-Trichlorotrifluoroethane (Freon 113). This analyte was biased low in the LCSD, but recovered within 70-130%. According to 8260C requirement, analytes are allowed to recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The following samples were unable to be analyzed due to poor purges during the low level analysis. No usable data was obtained. The reported values are from the high level volatile analysis: 4R Day 30b, 0.5x (620-17406-26) and 4R Day 30b, 3x (620-17406-29).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): 2-Methyl-2-propanol and m,p-Xylenes. (CCVIS 620-32993/3)

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32993 exhibited % difference of > 20% for the following analytes: n-Butylbenzene, 4-Chlorotoluene, trans-1,3-Dichloropropene, Methyl tert-butyl ether, Tert-amyl methyl ether and trans-1,4-Dichloro-2-butene; 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, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-33016 and analytical batch 620-32993 recovered outside control limits for the following analytes: trans-1,3-Dichloropropene and m,p-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-33016 and analytical batch 620-32993 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113) and Chloroethane. This analyte was biased low in the LCSD and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-33016 and analytical batch 620-32993 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte

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Case Narrative

Client: Loureiro Engineering Associates
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when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-32868 and analytical batch 620-32847 recovered outside control limits for the following analyte: Dichlorodifluoromethane (Freon 12), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-32902 and analytical batch 620-32903 recovered outside control limits for the following analyte: Dichlorodifluoromethane (Freon 12), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-32903 exhibited % difference of > 20% for the following analytes: 1,2-Dibromo-3-Chloropropane, Methyl tert-butyl ether, Naphthalene, 1,2,3-Trichlorobenzene, di-Isopropyl ether and tert-Butanol; 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, the continuing 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.

General Chemistry

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

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Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	180		100	ug/L	10		8260C	Total/NA
Carbon disulfide	85		20	ug/L	10		8260C	Total/NA
Ethylbenzene	160		10	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	36		10	ug/L	10		8260C	Total/NA
Toluene	800		10	ug/L	10		8260C	Total/NA
m,p-Xylene	450		10	ug/L	10		8260C	Total/NA
o-Xylene	360		10	ug/L	10		8260C	Total/NA
Benzene - DL	1200		50	ug/L	50		8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	26		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	34		2.0	ug/L	1		8260C	Total/NA
Chloromethane	6.6		2.0	ug/L	1		8260C	Total/NA
Ethylbenzene	55		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	20		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.0		1.0	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	1.0		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	11		10	ug/L	1		8260C	Total/NA
Acetone - DL	140		100	ug/L	10		8260C	Total/NA
Benzene - DL	300		10	ug/L	10		8260C	Total/NA
Toluene - DL	130		10	ug/L	10		8260C	Total/NA
m,p-Xylene - DL	49		10	ug/L	10		8260C	Total/NA
o-Xylene - DL	52		10	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	390		100	ug/L	10		8260C	Total/NA
Benzene	250		10	ug/L	10		8260C	Total/NA
2-Butanone (MEK)	37		20	ug/L	10		8260C	Total/NA
Chloromethane	51		20	ug/L	10		8260C	Total/NA
Toluene	70		10	ug/L	10		8260C	Total/NA
m,p-Xylene	15		10	ug/L	10		8260C	Total/NA
o-Xylene	22		10	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	56		1.0	ug/L	1		8260C	Total/NA
Bromomethane	7.2		2.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	14		2.0	ug/L	1		8260C	Total/NA
Chloromethane	57		2.0	ug/L	1		8260C	Total/NA
Ethylbenzene	3.5		1.0	ug/L	1		8260C	Total/NA
Toluene	14		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	2.7		1.0	ug/L	1		8260C	Total/NA
o-Xylene	3.8		1.0	ug/L	1		8260C	Total/NA
Acetone - DL	130		50	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	12		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	7.3		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	12		1.0	ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	1.1		1.0	ug/L	1		8260C	Total/NA
Toluene - DL	810		10	ug/L	10		8260C	Total/NA
m,p-Xylene - DL	200		10	ug/L	10		8260C	Total/NA
o-Xylene - DL	490		10	ug/L	10		8260C	Total/NA
Benzene - DL2	1900		100	ug/L	100		8260C	Total/NA

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		100	ug/L	10		8260C	Total/NA
Benzene	860		10	ug/L	10		8260C	Total/NA
Carbon disulfide	43		20	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	63		10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		100	ug/L	10		8260C	Total/NA
Benzene	190		10	ug/L	10		8260C	Total/NA
Carbon disulfide	24		20	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	21		10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		100	ug/L	10		8260C	Total/NA
Benzene	57		10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		100	ug/L	10		8260C	Total/NA
Benzene	12		10	ug/L	10		8260C	Total/NA
Chloromethane	24		20	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 30,ctrl

Lab Sample ID: 620-17406-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	83		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	34		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	10		10	ug/L	1		8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230	E	2.8	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	32		5.6	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	84		2.8	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	5.9		2.8	ug/Kg	1	✱	8260C	Total/NA
Toluene	240	E	2.8	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x (Continued)

Lab Sample ID: 620-17406-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	210	E	2.8	ug/Kg	1	✖	8260C	Total/NA
o-Xylene	160	E	2.8	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	810		36	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide - ME	72		72	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene - ME	850		36	ug/Kg	1	✖	8260C	Total/NA
Styrene - ME	78		36	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene - ME	48		36	ug/Kg	1	✖	8260C	Total/NA
Toluene - ME	1400		36	ug/Kg	1	✖	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	60		36	ug/Kg	1	✖	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	39		36	ug/Kg	1	✖	8260C	Total/NA
m,p-Xylene - ME	2800	*+	36	ug/Kg	1	✖	8260C	Total/NA
o-Xylene - ME	1600		36	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	250	E	3.8	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	46		7.5	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene	100		3.8	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene	9.4		3.8	ug/Kg	1	✖	8260C	Total/NA
Toluene	260	E	3.8	ug/Kg	1	✖	8260C	Total/NA
m,p-Xylene	230	E	3.8	ug/Kg	1	✖	8260C	Total/NA
o-Xylene	180	E	3.8	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	700		56	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene - ME	1000		56	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene - ME	75		56	ug/Kg	1	✖	8260C	Total/NA
Toluene - ME	1400		56	ug/Kg	1	✖	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	110		56	ug/Kg	1	✖	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	70		56	ug/Kg	1	✖	8260C	Total/NA
m,p-Xylene - ME	3100	*+	56	ug/Kg	1	✖	8260C	Total/NA
o-Xylene - ME	1800		56	ug/Kg	1	✖	8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	36		32	ug/Kg	1	✖	8260C	Total/NA
Benzene	200	E	3.2	ug/Kg	1	✖	8260C	Total/NA
Carbon disulfide	21		6.4	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene	92		3.2	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene	10		3.2	ug/Kg	1	✖	8260C	Total/NA
Toluene	210	E	3.2	ug/Kg	1	✖	8260C	Total/NA
m,p-Xylene	190	E	3.2	ug/Kg	1	✖	8260C	Total/NA
o-Xylene	150	E	3.2	ug/Kg	1	✖	8260C	Total/NA
Benzene - ME	1100		37	ug/Kg	1	✖	8260C	Total/NA
n-Butylbenzene - ME	40		37	ug/Kg	1	✖	8260C	Total/NA
Ethylbenzene - ME	1100		37	ug/Kg	1	✖	8260C	Total/NA
N-Propylbenzene - ME	47		37	ug/Kg	1	✖	8260C	Total/NA
Styrene - ME	87		37	ug/Kg	1	✖	8260C	Total/NA
Tetrachloroethene - ME	87		37	ug/Kg	1	✖	8260C	Total/NA
Toluene - ME	1700		37	ug/Kg	1	✖	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	130		37	ug/Kg	1	✖	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	63		37	ug/Kg	1	✖	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x (Continued)

Lab Sample ID: 620-17406-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene - ME	3000	*+	37	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	1800		37	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	71		47	ug/Kg	1	✱	8260C	Total/NA
Benzene	200	E	4.7	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	11		9.5	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	21		9.5	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	91		4.7	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	11		4.7	ug/Kg	1	✱	8260C	Total/NA
Toluene	210	E	4.7	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	170		4.7	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	140		4.7	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	460		40	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	480		40	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene - ME	48		40	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	720		40	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	64		40	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	1200	*+	40	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	870		40	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	340	E	3.7	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	10		3.7	ug/Kg	1	✱	8260C	Total/NA
Toluene	270	E	3.7	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	190	E	3.7	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	250	E	3.7	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - DL	1900		79	ug/Kg	2	✱	8260C	Total/NA
Benzene - ME	1200		40	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	210		40	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene - ME	56		40	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	1800		40	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	57		40	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	41		40	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	2900	*+	40	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	320	E	3.8	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	69		7.7	ug/Kg	1	✱	8260C	Total/NA
Toluene	4.9		3.8	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	3.9		3.8	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	5.3		3.8	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	880		38	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	180		75	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	230	E	3.9	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	110		7.8	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	790		55	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	190		110	ug/Kg	1	✱	8260C	Total/NA
N-Propylbenzene - ME	64		55	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	44		3.0	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	25		6.0	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	91		53	ug/Kg	1	✱	8260C	Total/NA
Benzene	59		5.3	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	14		11	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	36		11	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	25		11	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30, ctrl

Lab Sample ID: 620-17406-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		4.2	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	280	E	3.2	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	44		6.5	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	120		3.2	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	9.3		3.2	ug/Kg	1	✱	8260C	Total/NA
Toluene	320	E	3.2	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene	3.7		3.2	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	300	E	3.2	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	220	E	3.2	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	1100		44	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	100		88	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	990		44	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene - ME	60		44	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	1700		44	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	79		44	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	50		44	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	3200	*+	44	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	1900		44	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30b, 1x

Lab Sample ID: 620-17406-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	210	E	3.6	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	43		7.2	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	110		3.6	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 1x (Continued)

Lab Sample ID: 620-17406-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		3.6	ug/Kg	1	✱	8260C	Total/NA
Toluene	240	E	3.6	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	250	E	3.6	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	180	E	3.6	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	440		42	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	550		42	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	710		42	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	75		42	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	46		42	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	1600	*+	42	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	1000		42	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32		32	ug/Kg	1	✱	8260C	Total/NA
Benzene	170	E	3.2	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	18		6.4	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	75		3.2	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	8.4		3.2	ug/Kg	1	✱	8260C	Total/NA
Toluene	180	E	3.2	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	150	E	3.2	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	120		3.2	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	600		39	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	580		39	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene - ME	53		39	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	940		39	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	51		39	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	1600	*+	39	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	1100		39	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30b, 3x

Lab Sample ID: 620-17406-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		41	ug/Kg	1	✱	8260C	Total/NA
Benzene	150		4.1	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	20		8.3	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	16		8.3	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	72		4.1	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	8.7		4.1	ug/Kg	1	✱	8260C	Total/NA
Toluene	160		4.1	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	140		4.1	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	110		4.1	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 30b, ctrl

Lab Sample ID: 620-17406-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	340	E	3.7	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	9.1		3.7	ug/Kg	1	✱	8260C	Total/NA
Toluene	270	E	3.7	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	190	E	3.7	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	220	E	3.7	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, ctrl (Continued)

Lab Sample ID: 620-17406-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene - ME	2000		62	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene - ME	340		62	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene - ME	82		62	ug/Kg	1	✱	8260C	Total/NA
Toluene - ME	2900		62	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	100		62	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene - ME	69		62	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene - ME	4300	*+	62	ug/Kg	1	✱	8260C	Total/NA
o-Xylene - ME	3100		62	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30b, 0.5x

Lab Sample ID: 620-17406-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene - ME	850		38	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	190		76	ug/Kg	1	✱	8260C	Total/NA
N-Propylbenzene - ME	41		38	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30b, 1x

Lab Sample ID: 620-17406-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44		43	ug/Kg	1	✱	8260C	Total/NA
Benzene	270	E	4.3	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	120		8.5	ug/Kg	1	✱	8260C	Total/NA
Methyl tert-butyl ether	11		4.3	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	930		42	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	360		83	ug/Kg	1	✱	8260C	Total/NA
N-Propylbenzene - ME	54		42	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30b, 2x

Lab Sample ID: 620-17406-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	100		4.2	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	64		8.4	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	9.4		8.4	ug/Kg	1	✱	8260C	Total/NA
Methyl tert-butyl ether	4.3		4.2	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30b, 3x

Lab Sample ID: 620-17406-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene - ME	210		35	ug/Kg	1	✱	8260C	Total/NA
n-Butylbenzene - ME	39		35	ug/Kg	1	✱	8260C	Total/NA
2-Hexanone (MBK) - ME	81		71	ug/Kg	1	✱	8260C	Total/NA
Isopropylbenzene - ME	46		35	ug/Kg	1	✱	8260C	Total/NA
Naphthalene - ME	48		35	ug/Kg	1	✱	8260C	Total/NA
N-Propylbenzene - ME	150		35	ug/Kg	1	✱	8260C	Total/NA
Tetrahydrofuran - ME	110		71	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 30b, ctrl

Lab Sample ID: 620-17406-30

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-1

Date Collected: 03/13/24 08:00

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	10	ug/L			03/18/24 19:31	10
Acetone	180		100	ug/L			03/18/24 19:31	10
Acrylonitrile	ND		5.0	ug/L			03/18/24 19:31	10
Bromobenzene	ND		10	ug/L			03/18/24 19:31	10
Bromochloromethane	ND		10	ug/L			03/18/24 19:31	10
Bromodichloromethane	ND		5.0	ug/L			03/18/24 19:31	10
Bromoform	ND		10	ug/L			03/18/24 19:31	10
Bromomethane	ND		20	ug/L			03/18/24 19:31	10
2-Butanone (MEK)	ND		20	ug/L			03/18/24 19:31	10
n-Butylbenzene	ND		10	ug/L			03/18/24 19:31	10
sec-Butylbenzene	ND		10	ug/L			03/18/24 19:31	10
tert-Butylbenzene	ND		10	ug/L			03/18/24 19:31	10
Carbon disulfide	85		20	ug/L			03/18/24 19:31	10
Carbon tetrachloride	ND		10	ug/L			03/18/24 19:31	10
Chlorobenzene	ND		10	ug/L			03/18/24 19:31	10
Chloroethane	ND		20	ug/L			03/18/24 19:31	10
Chloroform	ND		10	ug/L			03/18/24 19:31	10
Chloromethane	ND		20	ug/L			03/18/24 19:31	10
2-Chlorotoluene	ND		10	ug/L			03/18/24 19:31	10
4-Chlorotoluene	ND		10	ug/L			03/18/24 19:31	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/18/24 19:31	10
Dibromochloromethane	ND		5.0	ug/L			03/18/24 19:31	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/18/24 19:31	10
Dibromomethane	ND		10	ug/L			03/18/24 19:31	10
1,2-Dichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
1,3-Dichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
1,4-Dichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/18/24 19:31	10
1,1-Dichloroethane	ND		10	ug/L			03/18/24 19:31	10
1,2-Dichloroethane	ND		10	ug/L			03/18/24 19:31	10
1,1-Dichloroethene	ND		10	ug/L			03/18/24 19:31	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/18/24 19:31	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/18/24 19:31	10
1,2-Dichloropropane	ND		10	ug/L			03/18/24 19:31	10
1,3-Dichloropropane	ND		10	ug/L			03/18/24 19:31	10
2,2-Dichloropropane	ND		10	ug/L			03/18/24 19:31	10
1,1-Dichloropropene	ND		10	ug/L			03/18/24 19:31	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/18/24 19:31	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/18/24 19:31	10
Ethylbenzene	160		10	ug/L			03/18/24 19:31	10
Hexachlorobutadiene	ND		10	ug/L			03/18/24 19:31	10
2-Hexanone (MBK)	ND		20	ug/L			03/18/24 19:31	10
Isopropylbenzene	ND		10	ug/L			03/18/24 19:31	10
4-Isopropyltoluene	ND		10	ug/L			03/18/24 19:31	10
Methyl tert-butyl ether	36		10	ug/L			03/18/24 19:31	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/18/24 19:31	10
Methylene Chloride	ND		20	ug/L			03/18/24 19:31	10
Naphthalene	ND		20	ug/L			03/18/24 19:31	10
N-Propylbenzene	ND		10	ug/L			03/18/24 19:31	10

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-1

Date Collected: 03/13/24 08:00

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		10	ug/L			03/18/24 19:31	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			03/18/24 19:31	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/18/24 19:31	10
Tetrachloroethene	ND		10	ug/L			03/18/24 19:31	10
Toluene	800		10	ug/L			03/18/24 19:31	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/18/24 19:31	10
1,1,1-Trichloroethane	ND		10	ug/L			03/18/24 19:31	10
1,1,2-Trichloroethane	ND		10	ug/L			03/18/24 19:31	10
Trichloroethene	ND		10	ug/L			03/18/24 19:31	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/18/24 19:31	10
1,2,3-Trichloropropane	ND		10	ug/L			03/18/24 19:31	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/18/24 19:31	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/18/24 19:31	10
Vinyl chloride	ND		10	ug/L			03/18/24 19:31	10
m,p-Xylene	450		10	ug/L			03/18/24 19:31	10
o-Xylene	360		10	ug/L			03/18/24 19:31	10
Tetrahydrofuran	ND		20	ug/L			03/18/24 19:31	10
Ethyl ether	ND		10	ug/L			03/18/24 19:31	10
Tert-amyl methyl ether	ND		10	ug/L			03/18/24 19:31	10
Ethyl tert-butyl ether	ND		10	ug/L			03/18/24 19:31	10
di-Isopropyl ether	ND		10	ug/L			03/18/24 19:31	10
tert-Butanol	ND		100	ug/L			03/18/24 19:31	10
1,4-Dioxane	ND		500	ug/L			03/18/24 19:31	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/18/24 19:31	10
Ethanol	ND		2000	ug/L			03/18/24 19:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		03/18/24 19:31	10
Toluene-d8 (Surr)	99		70 - 130		03/18/24 19:31	10
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		03/18/24 19:31	10
Dibromofluoromethane (Surr)	99		70 - 130		03/18/24 19:31	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1200		50	ug/L			03/20/24 15:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		03/20/24 15:56	50
Toluene-d8 (Surr)	99		70 - 130		03/20/24 15:56	50
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		03/20/24 15:56	50
Dibromofluoromethane (Surr)	98		70 - 130		03/20/24 15:56	50

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-2

Date Collected: 03/13/24 08:10

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	1.0	ug/L			03/18/24 19:58	1
Acrylonitrile	ND		0.50	ug/L			03/18/24 19:58	1
Bromobenzene	ND		1.0	ug/L			03/18/24 19:58	1
Bromochloromethane	ND		1.0	ug/L			03/18/24 19:58	1
Bromodichloromethane	ND		0.50	ug/L			03/18/24 19:58	1
Bromoform	ND		1.0	ug/L			03/18/24 19:58	1
Bromomethane	ND		2.0	ug/L			03/18/24 19:58	1
2-Butanone (MEK)	26		2.0	ug/L			03/18/24 19:58	1
n-Butylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
sec-Butylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
tert-Butylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
Carbon disulfide	34		2.0	ug/L			03/18/24 19:58	1
Carbon tetrachloride	ND		1.0	ug/L			03/18/24 19:58	1
Chlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
Chloroethane	ND		2.0	ug/L			03/18/24 19:58	1
Chloroform	ND		1.0	ug/L			03/18/24 19:58	1
Chloromethane	6.6		2.0	ug/L			03/18/24 19:58	1
2-Chlorotoluene	ND		1.0	ug/L			03/18/24 19:58	1
4-Chlorotoluene	ND		1.0	ug/L			03/18/24 19:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/18/24 19:58	1
Dibromochloromethane	ND		0.50	ug/L			03/18/24 19:58	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/18/24 19:58	1
Dibromomethane	ND		1.0	ug/L			03/18/24 19:58	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/18/24 19:58	1
1,1-Dichloroethane	ND		1.0	ug/L			03/18/24 19:58	1
1,2-Dichloroethane	ND		1.0	ug/L			03/18/24 19:58	1
1,1-Dichloroethene	ND		1.0	ug/L			03/18/24 19:58	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 19:58	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 19:58	1
1,2-Dichloropropane	ND		1.0	ug/L			03/18/24 19:58	1
1,3-Dichloropropane	ND		1.0	ug/L			03/18/24 19:58	1
2,2-Dichloropropane	ND		1.0	ug/L			03/18/24 19:58	1
1,1-Dichloropropene	ND		1.0	ug/L			03/18/24 19:58	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 19:58	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 19:58	1
Ethylbenzene	55		1.0	ug/L			03/18/24 19:58	1
Hexachlorobutadiene	ND		1.0	ug/L			03/18/24 19:58	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/18/24 19:58	1
Isopropylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
4-Isopropyltoluene	ND		1.0	ug/L			03/18/24 19:58	1
Methyl tert-butyl ether	20		1.0	ug/L			03/18/24 19:58	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/18/24 19:58	1
Methylene Chloride	ND		2.0	ug/L			03/18/24 19:58	1
Naphthalene	ND		2.0	ug/L			03/18/24 19:58	1
N-Propylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
Styrene	ND		1.0	ug/L			03/18/24 19:58	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-2

Date Collected: 03/13/24 08:10

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*-	1.0	ug/L			03/18/24 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/18/24 19:58	1
Tetrachloroethene	3.0		1.0	ug/L			03/18/24 19:58	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:58	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/18/24 19:58	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/18/24 19:58	1
Trichloroethene	ND		1.0	ug/L			03/18/24 19:58	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/18/24 19:58	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/18/24 19:58	1
1,2,4-Trimethylbenzene	1.0		1.0	ug/L			03/18/24 19:58	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/18/24 19:58	1
Vinyl chloride	ND		1.0	ug/L			03/18/24 19:58	1
Tetrahydrofuran	ND		2.0	ug/L			03/18/24 19:58	1
Ethyl ether	ND		1.0	ug/L			03/18/24 19:58	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/18/24 19:58	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/18/24 19:58	1
di-Isopropyl ether	ND		1.0	ug/L			03/18/24 19:58	1
tert-Butanol	11		10	ug/L			03/18/24 19:58	1
1,4-Dioxane	ND		50	ug/L			03/18/24 19:58	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/18/24 19:58	1
Ethanol	ND		200	ug/L			03/18/24 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		03/18/24 19:58	1
Toluene-d8 (Surr)	102		70 - 130		03/18/24 19:58	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		03/18/24 19:58	1
Dibromofluoromethane (Surr)	101		70 - 130		03/18/24 19:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	140		100	ug/L			03/20/24 16:22	10
Benzene	300		10	ug/L			03/20/24 16:22	10
Toluene	130		10	ug/L			03/20/24 16:22	10
m,p-Xylene	49		10	ug/L			03/20/24 16:22	10
o-Xylene	52		10	ug/L			03/20/24 16:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/20/24 16:22	10
Toluene-d8 (Surr)	99		70 - 130		03/20/24 16:22	10
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		03/20/24 16:22	10
Dibromofluoromethane (Surr)	98		70 - 130		03/20/24 16:22	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-3

Date Collected: 03/13/24 08:20

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	10	ug/L			03/18/24 20:24	10
Acetone	390		100	ug/L			03/18/24 20:24	10
Acrylonitrile	ND		5.0	ug/L			03/18/24 20:24	10
Benzene	250		10	ug/L			03/18/24 20:24	10
Bromobenzene	ND		10	ug/L			03/18/24 20:24	10
Bromochloromethane	ND		10	ug/L			03/18/24 20:24	10
Bromodichloromethane	ND		5.0	ug/L			03/18/24 20:24	10
Bromoform	ND		10	ug/L			03/18/24 20:24	10
Bromomethane	ND		20	ug/L			03/18/24 20:24	10
2-Butanone (MEK)	37		20	ug/L			03/18/24 20:24	10
n-Butylbenzene	ND		10	ug/L			03/18/24 20:24	10
sec-Butylbenzene	ND		10	ug/L			03/18/24 20:24	10
tert-Butylbenzene	ND		10	ug/L			03/18/24 20:24	10
Carbon disulfide	ND		20	ug/L			03/18/24 20:24	10
Carbon tetrachloride	ND		10	ug/L			03/18/24 20:24	10
Chlorobenzene	ND		10	ug/L			03/18/24 20:24	10
Chloroethane	ND		20	ug/L			03/18/24 20:24	10
Chloroform	ND		10	ug/L			03/18/24 20:24	10
Chloromethane	51		20	ug/L			03/18/24 20:24	10
2-Chlorotoluene	ND		10	ug/L			03/18/24 20:24	10
4-Chlorotoluene	ND		10	ug/L			03/18/24 20:24	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/18/24 20:24	10
Dibromochloromethane	ND		5.0	ug/L			03/18/24 20:24	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/18/24 20:24	10
Dibromomethane	ND		10	ug/L			03/18/24 20:24	10
1,2-Dichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
1,3-Dichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
1,4-Dichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/18/24 20:24	10
1,1-Dichloroethane	ND		10	ug/L			03/18/24 20:24	10
1,2-Dichloroethane	ND		10	ug/L			03/18/24 20:24	10
1,1-Dichloroethene	ND		10	ug/L			03/18/24 20:24	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/18/24 20:24	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/18/24 20:24	10
1,2-Dichloropropane	ND		10	ug/L			03/18/24 20:24	10
1,3-Dichloropropane	ND		10	ug/L			03/18/24 20:24	10
2,2-Dichloropropane	ND		10	ug/L			03/18/24 20:24	10
1,1-Dichloropropene	ND		10	ug/L			03/18/24 20:24	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/18/24 20:24	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/18/24 20:24	10
Ethylbenzene	ND		10	ug/L			03/18/24 20:24	10
Hexachlorobutadiene	ND		10	ug/L			03/18/24 20:24	10
2-Hexanone (MBK)	ND		20	ug/L			03/18/24 20:24	10
Isopropylbenzene	ND		10	ug/L			03/18/24 20:24	10
4-Isopropyltoluene	ND		10	ug/L			03/18/24 20:24	10
Methyl tert-butyl ether	ND		10	ug/L			03/18/24 20:24	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/18/24 20:24	10
Methylene Chloride	ND		20	ug/L			03/18/24 20:24	10
Naphthalene	ND		20	ug/L			03/18/24 20:24	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-3

Date Collected: 03/13/24 08:20

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		10	ug/L			03/18/24 20:24	10
Styrene	ND		10	ug/L			03/18/24 20:24	10
1,1,1,2-Tetrachloroethane	ND	*	10	ug/L			03/18/24 20:24	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/18/24 20:24	10
Tetrachloroethene	ND		10	ug/L			03/18/24 20:24	10
Toluene	70		10	ug/L			03/18/24 20:24	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/18/24 20:24	10
1,1,1-Trichloroethane	ND		10	ug/L			03/18/24 20:24	10
1,1,2-Trichloroethane	ND		10	ug/L			03/18/24 20:24	10
Trichloroethene	ND		10	ug/L			03/18/24 20:24	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/18/24 20:24	10
1,2,3-Trichloropropane	ND		10	ug/L			03/18/24 20:24	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/18/24 20:24	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/18/24 20:24	10
Vinyl chloride	ND		10	ug/L			03/18/24 20:24	10
m,p-Xylene	15		10	ug/L			03/18/24 20:24	10
o-Xylene	22		10	ug/L			03/18/24 20:24	10
Tetrahydrofuran	ND		20	ug/L			03/18/24 20:24	10
Ethyl ether	ND		10	ug/L			03/18/24 20:24	10
Tert-amyl methyl ether	ND		10	ug/L			03/18/24 20:24	10
Ethyl tert-butyl ether	ND		10	ug/L			03/18/24 20:24	10
di-Isopropyl ether	ND		10	ug/L			03/18/24 20:24	10
tert-Butanol	ND		100	ug/L			03/18/24 20:24	10
1,4-Dioxane	ND		500	ug/L			03/18/24 20:24	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/18/24 20:24	10
Ethanol	ND		2000	ug/L			03/18/24 20:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/18/24 20:24	10
Toluene-d8 (Surr)	99		70 - 130		03/18/24 20:24	10
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		03/18/24 20:24	10
Dibromofluoromethane (Surr)	102		70 - 130		03/18/24 20:24	10

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-4

Date Collected: 03/13/24 08:30

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	1.0	ug/L			03/18/24 19:03	1
Acrylonitrile	ND		0.50	ug/L			03/18/24 19:03	1
Benzene	56		1.0	ug/L			03/18/24 19:03	1
Bromobenzene	ND		1.0	ug/L			03/18/24 19:03	1
Bromochloromethane	ND		1.0	ug/L			03/18/24 19:03	1
Bromodichloromethane	ND		0.50	ug/L			03/18/24 19:03	1
Bromoform	ND		1.0	ug/L			03/18/24 19:03	1
Bromomethane	7.2		2.0	ug/L			03/18/24 19:03	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-4

Date Collected: 03/13/24 08:30

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	14		2.0	ug/L			03/18/24 19:03	1
n-Butylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
sec-Butylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
tert-Butylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
Carbon disulfide	ND		2.0	ug/L			03/18/24 19:03	1
Carbon tetrachloride	ND		1.0	ug/L			03/18/24 19:03	1
Chlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
Chloroethane	ND		2.0	ug/L			03/18/24 19:03	1
Chloroform	ND		1.0	ug/L			03/18/24 19:03	1
Chloromethane	57		2.0	ug/L			03/18/24 19:03	1
2-Chlorotoluene	ND		1.0	ug/L			03/18/24 19:03	1
4-Chlorotoluene	ND		1.0	ug/L			03/18/24 19:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/18/24 19:03	1
Dibromochloromethane	ND		0.50	ug/L			03/18/24 19:03	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/18/24 19:03	1
Dibromomethane	ND		1.0	ug/L			03/18/24 19:03	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/18/24 19:03	1
1,1-Dichloroethane	ND		1.0	ug/L			03/18/24 19:03	1
1,2-Dichloroethane	ND		1.0	ug/L			03/18/24 19:03	1
1,1-Dichloroethene	ND		1.0	ug/L			03/18/24 19:03	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 19:03	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 19:03	1
1,2-Dichloropropane	ND		1.0	ug/L			03/18/24 19:03	1
1,3-Dichloropropane	ND		1.0	ug/L			03/18/24 19:03	1
2,2-Dichloropropane	ND		1.0	ug/L			03/18/24 19:03	1
1,1-Dichloropropene	ND		1.0	ug/L			03/18/24 19:03	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 19:03	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 19:03	1
Ethylbenzene	3.5		1.0	ug/L			03/18/24 19:03	1
Hexachlorobutadiene	ND		1.0	ug/L			03/18/24 19:03	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/18/24 19:03	1
Isopropylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
4-Isopropyltoluene	ND		1.0	ug/L			03/18/24 19:03	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/18/24 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/18/24 19:03	1
Methylene Chloride	ND		2.0	ug/L			03/18/24 19:03	1
Naphthalene	ND		2.0	ug/L			03/18/24 19:03	1
N-Propylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
Styrene	ND		1.0	ug/L			03/18/24 19:03	1
1,1,1,2-Tetrachloroethane	ND	*	1.0	ug/L			03/18/24 19:03	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/18/24 19:03	1
Tetrachloroethene	ND		1.0	ug/L			03/18/24 19:03	1
Toluene	14		1.0	ug/L			03/18/24 19:03	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/18/24 19:03	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-4

Date Collected: 03/13/24 08:30

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			03/18/24 19:03	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/18/24 19:03	1
Trichloroethene	ND		1.0	ug/L			03/18/24 19:03	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/18/24 19:03	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/18/24 19:03	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/18/24 19:03	1
Vinyl chloride	ND		1.0	ug/L			03/18/24 19:03	1
m,p-Xylene	2.7		1.0	ug/L			03/18/24 19:03	1
o-Xylene	3.8		1.0	ug/L			03/18/24 19:03	1
Tetrahydrofuran	ND		2.0	ug/L			03/18/24 19:03	1
Ethyl ether	ND		1.0	ug/L			03/18/24 19:03	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/18/24 19:03	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/18/24 19:03	1
di-Isopropyl ether	ND		1.0	ug/L			03/18/24 19:03	1
tert-Butanol	ND		10	ug/L			03/18/24 19:03	1
1,4-Dioxane	ND		50	ug/L			03/18/24 19:03	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/18/24 19:03	1
Ethanol	ND		200	ug/L			03/18/24 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		03/18/24 19:03	1
Toluene-d8 (Surr)	101		70 - 130		03/18/24 19:03	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		03/18/24 19:03	1
Dibromofluoromethane (Surr)	102		70 - 130		03/18/24 19:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	130		50	ug/L			03/20/24 15:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/20/24 15:30	5
Toluene-d8 (Surr)	100		70 - 130		03/20/24 15:30	5
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		03/20/24 15:30	5
Dibromofluoromethane (Surr)	101		70 - 130		03/20/24 15:30	5

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-5

Date Collected: 03/13/24 08:40

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			03/18/24 18:37	1
Acetone	ND		10	ug/L			03/18/24 18:37	1
Acrylonitrile	ND		0.50	ug/L			03/18/24 18:37	1
Bromobenzene	ND		1.0	ug/L			03/18/24 18:37	1
Bromochloromethane	ND		1.0	ug/L			03/18/24 18:37	1
Bromodichloromethane	ND		0.50	ug/L			03/18/24 18:37	1
Bromoform	ND		1.0	ug/L			03/18/24 18:37	1
Bromomethane	ND		2.0	ug/L			03/18/24 18:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-5

Date Collected: 03/13/24 08:40

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		2.0	ug/L			03/18/24 18:37	1
n-Butylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
sec-Butylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
tert-Butylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
Carbon disulfide	ND		2.0	ug/L			03/18/24 18:37	1
Carbon tetrachloride	ND		1.0	ug/L			03/18/24 18:37	1
Chlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
Chloroethane	ND		2.0	ug/L			03/18/24 18:37	1
Chloroform	ND		1.0	ug/L			03/18/24 18:37	1
Chloromethane	ND		2.0	ug/L			03/18/24 18:37	1
2-Chlorotoluene	ND		1.0	ug/L			03/18/24 18:37	1
4-Chlorotoluene	ND		1.0	ug/L			03/18/24 18:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/18/24 18:37	1
Dibromochloromethane	ND		0.50	ug/L			03/18/24 18:37	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/18/24 18:37	1
Dibromomethane	ND		1.0	ug/L			03/18/24 18:37	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/18/24 18:37	1
1,1-Dichloroethane	ND		1.0	ug/L			03/18/24 18:37	1
1,2-Dichloroethane	ND		1.0	ug/L			03/18/24 18:37	1
1,1-Dichloroethene	ND		1.0	ug/L			03/18/24 18:37	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 18:37	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 18:37	1
1,2-Dichloropropane	ND		1.0	ug/L			03/18/24 18:37	1
1,3-Dichloropropane	ND		1.0	ug/L			03/18/24 18:37	1
2,2-Dichloropropane	ND		1.0	ug/L			03/18/24 18:37	1
1,1-Dichloropropene	ND		1.0	ug/L			03/18/24 18:37	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 18:37	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 18:37	1
Ethylbenzene	12		1.0	ug/L			03/18/24 18:37	1
Hexachlorobutadiene	ND		1.0	ug/L			03/18/24 18:37	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/18/24 18:37	1
Isopropylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
4-Isopropyltoluene	ND		1.0	ug/L			03/18/24 18:37	1
Methyl tert-butyl ether	7.3		1.0	ug/L			03/18/24 18:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/18/24 18:37	1
Methylene Chloride	ND		2.0	ug/L			03/18/24 18:37	1
Naphthalene	ND		2.0	ug/L			03/18/24 18:37	1
N-Propylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
Styrene	ND		1.0	ug/L			03/18/24 18:37	1
1,1,1,2-Tetrachloroethane	ND	*	1.0	ug/L			03/18/24 18:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/18/24 18:37	1
Tetrachloroethene	12		1.0	ug/L			03/18/24 18:37	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/18/24 18:37	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/18/24 18:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-5

Date Collected: 03/13/24 08:40

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	ug/L			03/18/24 18:37	1
Trichloroethene	1.2		1.0	ug/L			03/18/24 18:37	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/18/24 18:37	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/18/24 18:37	1
1,2,4-Trimethylbenzene	1.1		1.0	ug/L			03/18/24 18:37	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/18/24 18:37	1
Vinyl chloride	ND		1.0	ug/L			03/18/24 18:37	1
Tetrahydrofuran	ND		2.0	ug/L			03/18/24 18:37	1
Ethyl ether	ND		1.0	ug/L			03/18/24 18:37	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/18/24 18:37	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/18/24 18:37	1
di-Isopropyl ether	ND		1.0	ug/L			03/18/24 18:37	1
tert-Butanol	ND		10	ug/L			03/18/24 18:37	1
1,4-Dioxane	ND		50	ug/L			03/18/24 18:37	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/18/24 18:37	1
Ethanol	ND		200	ug/L			03/18/24 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		03/18/24 18:37	1
Toluene-d8 (Surr)	98		70 - 130		03/18/24 18:37	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		03/18/24 18:37	1
Dibromofluoromethane (Surr)	95		70 - 130		03/18/24 18:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	810		10	ug/L			03/20/24 17:13	10
m,p-Xylene	200		10	ug/L			03/20/24 17:13	10
o-Xylene	490		10	ug/L			03/20/24 17:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		03/20/24 17:13	10
Toluene-d8 (Surr)	97		70 - 130		03/20/24 17:13	10
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		03/20/24 17:13	10
Dibromofluoromethane (Surr)	96		70 - 130		03/20/24 17:13	10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1900		100	ug/L			03/20/24 16:47	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		03/20/24 16:47	100
Toluene-d8 (Surr)	100		70 - 130		03/20/24 16:47	100
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		03/20/24 16:47	100
Dibromofluoromethane (Surr)	98		70 - 130		03/20/24 16:47	100

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-6

Date Collected: 03/13/24 08:50

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		10	ug/L			03/21/24 04:13	10
Acetone	160		100	ug/L			03/21/24 04:13	10
Acrylonitrile	ND		5.0	ug/L			03/21/24 04:13	10
Benzene	860		10	ug/L			03/21/24 04:13	10
Bromobenzene	ND		10	ug/L			03/21/24 04:13	10
Bromochloromethane	ND		10	ug/L			03/21/24 04:13	10
Bromodichloromethane	ND		5.0	ug/L			03/21/24 04:13	10
Bromoform	ND		10	ug/L			03/21/24 04:13	10
Bromomethane	ND		20	ug/L			03/21/24 04:13	10
2-Butanone (MEK)	ND		20	ug/L			03/21/24 04:13	10
n-Butylbenzene	ND		10	ug/L			03/21/24 04:13	10
sec-Butylbenzene	ND		10	ug/L			03/21/24 04:13	10
tert-Butylbenzene	ND		10	ug/L			03/21/24 04:13	10
Carbon disulfide	43		20	ug/L			03/21/24 04:13	10
Carbon tetrachloride	ND		10	ug/L			03/21/24 04:13	10
Chlorobenzene	ND		10	ug/L			03/21/24 04:13	10
Chloroethane	ND		20	ug/L			03/21/24 04:13	10
Chloroform	ND		10	ug/L			03/21/24 04:13	10
Chloromethane	ND		20	ug/L			03/21/24 04:13	10
2-Chlorotoluene	ND		10	ug/L			03/21/24 04:13	10
4-Chlorotoluene	ND		10	ug/L			03/21/24 04:13	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/21/24 04:13	10
Dibromochloromethane	ND		5.0	ug/L			03/21/24 04:13	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/21/24 04:13	10
Dibromomethane	ND		10	ug/L			03/21/24 04:13	10
1,2-Dichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
1,3-Dichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
1,4-Dichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/21/24 04:13	10
1,1-Dichloroethane	ND		10	ug/L			03/21/24 04:13	10
1,2-Dichloroethane	ND		10	ug/L			03/21/24 04:13	10
1,1-Dichloroethene	ND		10	ug/L			03/21/24 04:13	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/21/24 04:13	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/21/24 04:13	10
1,2-Dichloropropane	ND		10	ug/L			03/21/24 04:13	10
1,3-Dichloropropane	ND		10	ug/L			03/21/24 04:13	10
2,2-Dichloropropane	ND		10	ug/L			03/21/24 04:13	10
1,1-Dichloropropene	ND		10	ug/L			03/21/24 04:13	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 04:13	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 04:13	10
Ethylbenzene	ND		10	ug/L			03/21/24 04:13	10
Hexachlorobutadiene	ND		10	ug/L			03/21/24 04:13	10
2-Hexanone (MBK)	ND		20	ug/L			03/21/24 04:13	10
Isopropylbenzene	ND		10	ug/L			03/21/24 04:13	10
4-Isopropyltoluene	ND		10	ug/L			03/21/24 04:13	10
Methyl tert-butyl ether	63		10	ug/L			03/21/24 04:13	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/21/24 04:13	10
Methylene Chloride	ND		20	ug/L			03/21/24 04:13	10
Naphthalene	ND		20	ug/L			03/21/24 04:13	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-6

Date Collected: 03/13/24 08:50

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		10	ug/L			03/21/24 04:13	10
Styrene	ND		10	ug/L			03/21/24 04:13	10
1,1,1,2-Tetrachloroethane	ND		10	ug/L			03/21/24 04:13	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/21/24 04:13	10
Tetrachloroethene	ND		10	ug/L			03/21/24 04:13	10
Toluene	ND		10	ug/L			03/21/24 04:13	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/21/24 04:13	10
1,1,1-Trichloroethane	ND		10	ug/L			03/21/24 04:13	10
1,1,2-Trichloroethane	ND		10	ug/L			03/21/24 04:13	10
Trichloroethene	ND		10	ug/L			03/21/24 04:13	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/21/24 04:13	10
1,2,3-Trichloropropane	ND		10	ug/L			03/21/24 04:13	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/21/24 04:13	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/21/24 04:13	10
Vinyl chloride	ND		10	ug/L			03/21/24 04:13	10
m,p-Xylene	ND	+	10	ug/L			03/21/24 04:13	10
o-Xylene	ND		10	ug/L			03/21/24 04:13	10
Tetrahydrofuran	ND		20	ug/L			03/21/24 04:13	10
Ethyl ether	ND		10	ug/L			03/21/24 04:13	10
Tert-amyl methyl ether	ND		10	ug/L			03/21/24 04:13	10
Ethyl tert-butyl ether	ND		10	ug/L			03/21/24 04:13	10
di-Isopropyl ether	ND		10	ug/L			03/21/24 04:13	10
tert-Butanol	ND		100	ug/L			03/21/24 04:13	10
1,4-Dioxane	ND		500	ug/L			03/21/24 04:13	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/21/24 04:13	10
Ethanol	ND		2000	ug/L			03/21/24 04:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		03/21/24 04:13	10
Toluene-d8 (Surr)	100		70 - 130		03/21/24 04:13	10
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		03/21/24 04:13	10
Dibromofluoromethane (Surr)	102		70 - 130		03/21/24 04:13	10

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-7

Date Collected: 03/13/24 09:00

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		10	ug/L			03/21/24 04:38	10
Acetone	130		100	ug/L			03/21/24 04:38	10
Acrylonitrile	ND		5.0	ug/L			03/21/24 04:38	10
Benzene	190		10	ug/L			03/21/24 04:38	10
Bromobenzene	ND		10	ug/L			03/21/24 04:38	10
Bromochloromethane	ND		10	ug/L			03/21/24 04:38	10
Bromodichloromethane	ND		5.0	ug/L			03/21/24 04:38	10
Bromoform	ND		10	ug/L			03/21/24 04:38	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-7

Date Collected: 03/13/24 09:00

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		20	ug/L			03/21/24 04:38	10
2-Butanone (MEK)	ND		20	ug/L			03/21/24 04:38	10
n-Butylbenzene	ND		10	ug/L			03/21/24 04:38	10
sec-Butylbenzene	ND		10	ug/L			03/21/24 04:38	10
tert-Butylbenzene	ND		10	ug/L			03/21/24 04:38	10
Carbon disulfide	24		20	ug/L			03/21/24 04:38	10
Carbon tetrachloride	ND		10	ug/L			03/21/24 04:38	10
Chlorobenzene	ND		10	ug/L			03/21/24 04:38	10
Chloroethane	ND		20	ug/L			03/21/24 04:38	10
Chloroform	ND		10	ug/L			03/21/24 04:38	10
Chloromethane	ND		20	ug/L			03/21/24 04:38	10
2-Chlorotoluene	ND		10	ug/L			03/21/24 04:38	10
4-Chlorotoluene	ND		10	ug/L			03/21/24 04:38	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/21/24 04:38	10
Dibromochloromethane	ND		5.0	ug/L			03/21/24 04:38	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/21/24 04:38	10
Dibromomethane	ND		10	ug/L			03/21/24 04:38	10
1,2-Dichlorobenzene	ND		10	ug/L			03/21/24 04:38	10
1,3-Dichlorobenzene	ND		10	ug/L			03/21/24 04:38	10
1,4-Dichlorobenzene	ND		10	ug/L			03/21/24 04:38	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/21/24 04:38	10
1,1-Dichloroethane	ND		10	ug/L			03/21/24 04:38	10
1,2-Dichloroethane	ND		10	ug/L			03/21/24 04:38	10
1,1-Dichloroethene	ND		10	ug/L			03/21/24 04:38	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/21/24 04:38	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/21/24 04:38	10
1,2-Dichloropropane	ND		10	ug/L			03/21/24 04:38	10
1,3-Dichloropropane	ND		10	ug/L			03/21/24 04:38	10
2,2-Dichloropropane	ND		10	ug/L			03/21/24 04:38	10
1,1-Dichloropropene	ND		10	ug/L			03/21/24 04:38	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 04:38	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 04:38	10
Ethylbenzene	ND		10	ug/L			03/21/24 04:38	10
Hexachlorobutadiene	ND		10	ug/L			03/21/24 04:38	10
2-Hexanone (MBK)	ND		20	ug/L			03/21/24 04:38	10
Isopropylbenzene	ND		10	ug/L			03/21/24 04:38	10
4-Isopropyltoluene	ND		10	ug/L			03/21/24 04:38	10
Methyl tert-butyl ether	21		10	ug/L			03/21/24 04:38	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/21/24 04:38	10
Methylene Chloride	ND		20	ug/L			03/21/24 04:38	10
Naphthalene	ND		20	ug/L			03/21/24 04:38	10
N-Propylbenzene	ND		10	ug/L			03/21/24 04:38	10
Styrene	ND		10	ug/L			03/21/24 04:38	10
1,1,1,2-Tetrachloroethane	ND		10	ug/L			03/21/24 04:38	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/21/24 04:38	10
Tetrachloroethene	ND		10	ug/L			03/21/24 04:38	10
Toluene	ND		10	ug/L			03/21/24 04:38	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/21/24 04:38	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/21/24 04:38	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-7

Date Collected: 03/13/24 09:00

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		10	ug/L			03/21/24 04:38	10
1,1,1-Trichloroethane	ND		10	ug/L			03/21/24 04:38	10
1,1,2-Trichloroethane	ND		10	ug/L			03/21/24 04:38	10
Trichloroethene	ND		10	ug/L			03/21/24 04:38	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/21/24 04:38	10
1,2,3-Trichloropropane	ND		10	ug/L			03/21/24 04:38	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/21/24 04:38	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/21/24 04:38	10
Vinyl chloride	ND		10	ug/L			03/21/24 04:38	10
m,p-Xylene	ND	*+	10	ug/L			03/21/24 04:38	10
o-Xylene	ND		10	ug/L			03/21/24 04:38	10
Tetrahydrofuran	ND		20	ug/L			03/21/24 04:38	10
Ethyl ether	ND		10	ug/L			03/21/24 04:38	10
Tert-amyl methyl ether	ND		10	ug/L			03/21/24 04:38	10
Ethyl tert-butyl ether	ND		10	ug/L			03/21/24 04:38	10
di-Isopropyl ether	ND		10	ug/L			03/21/24 04:38	10
tert-Butanol	ND		100	ug/L			03/21/24 04:38	10
1,4-Dioxane	ND		500	ug/L			03/21/24 04:38	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/21/24 04:38	10
Ethanol	ND		2000	ug/L			03/21/24 04:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		03/21/24 04:38	10
Toluene-d8 (Surr)	99		70 - 130		03/21/24 04:38	10
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		03/21/24 04:38	10
Dibromofluoromethane (Surr)	98		70 - 130		03/21/24 04:38	10

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-8

Date Collected: 03/13/24 09:10

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		10	ug/L			03/21/24 05:04	10
Acetone	160		100	ug/L			03/21/24 05:04	10
Acrylonitrile	ND		5.0	ug/L			03/21/24 05:04	10
Benzene	57		10	ug/L			03/21/24 05:04	10
Bromobenzene	ND		10	ug/L			03/21/24 05:04	10
Bromochloromethane	ND		10	ug/L			03/21/24 05:04	10
Bromodichloromethane	ND		5.0	ug/L			03/21/24 05:04	10
Bromoform	ND		10	ug/L			03/21/24 05:04	10
Bromomethane	ND		20	ug/L			03/21/24 05:04	10
2-Butanone (MEK)	ND		20	ug/L			03/21/24 05:04	10
n-Butylbenzene	ND		10	ug/L			03/21/24 05:04	10
sec-Butylbenzene	ND		10	ug/L			03/21/24 05:04	10
tert-Butylbenzene	ND		10	ug/L			03/21/24 05:04	10
Carbon disulfide	ND		20	ug/L			03/21/24 05:04	10
Carbon tetrachloride	ND		10	ug/L			03/21/24 05:04	10
Chlorobenzene	ND		10	ug/L			03/21/24 05:04	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-8

Date Collected: 03/13/24 09:10

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		20	ug/L			03/21/24 05:04	10
Chloroform	ND		10	ug/L			03/21/24 05:04	10
Chloromethane	ND		20	ug/L			03/21/24 05:04	10
2-Chlorotoluene	ND		10	ug/L			03/21/24 05:04	10
4-Chlorotoluene	ND		10	ug/L			03/21/24 05:04	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/21/24 05:04	10
Dibromochloromethane	ND		5.0	ug/L			03/21/24 05:04	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/21/24 05:04	10
Dibromomethane	ND		10	ug/L			03/21/24 05:04	10
1,2-Dichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
1,3-Dichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
1,4-Dichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/21/24 05:04	10
1,1-Dichloroethane	ND		10	ug/L			03/21/24 05:04	10
1,2-Dichloroethane	ND		10	ug/L			03/21/24 05:04	10
1,1-Dichloroethene	ND		10	ug/L			03/21/24 05:04	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/21/24 05:04	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/21/24 05:04	10
1,2-Dichloropropane	ND		10	ug/L			03/21/24 05:04	10
1,3-Dichloropropane	ND		10	ug/L			03/21/24 05:04	10
2,2-Dichloropropane	ND		10	ug/L			03/21/24 05:04	10
1,1-Dichloropropene	ND		10	ug/L			03/21/24 05:04	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 05:04	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 05:04	10
Ethylbenzene	ND		10	ug/L			03/21/24 05:04	10
Hexachlorobutadiene	ND		10	ug/L			03/21/24 05:04	10
2-Hexanone (MBK)	ND		20	ug/L			03/21/24 05:04	10
Isopropylbenzene	ND		10	ug/L			03/21/24 05:04	10
4-Isopropyltoluene	ND		10	ug/L			03/21/24 05:04	10
Methyl tert-butyl ether	ND		10	ug/L			03/21/24 05:04	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/21/24 05:04	10
Methylene Chloride	ND		20	ug/L			03/21/24 05:04	10
Naphthalene	ND		20	ug/L			03/21/24 05:04	10
N-Propylbenzene	ND		10	ug/L			03/21/24 05:04	10
Styrene	ND		10	ug/L			03/21/24 05:04	10
1,1,1,2-Tetrachloroethane	ND		10	ug/L			03/21/24 05:04	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/21/24 05:04	10
Tetrachloroethene	ND		10	ug/L			03/21/24 05:04	10
Toluene	ND		10	ug/L			03/21/24 05:04	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/21/24 05:04	10
1,1,1-Trichloroethane	ND		10	ug/L			03/21/24 05:04	10
1,1,2-Trichloroethane	ND		10	ug/L			03/21/24 05:04	10
Trichloroethene	ND		10	ug/L			03/21/24 05:04	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/21/24 05:04	10
1,2,3-Trichloropropane	ND		10	ug/L			03/21/24 05:04	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/21/24 05:04	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/21/24 05:04	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-8

Date Collected: 03/13/24 09:10

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		10	ug/L			03/21/24 05:04	10
m,p-Xylene	ND	++	10	ug/L			03/21/24 05:04	10
o-Xylene	ND		10	ug/L			03/21/24 05:04	10
Tetrahydrofuran	ND		20	ug/L			03/21/24 05:04	10
Ethyl ether	ND		10	ug/L			03/21/24 05:04	10
Tert-amyl methyl ether	ND		10	ug/L			03/21/24 05:04	10
Ethyl tert-butyl ether	ND		10	ug/L			03/21/24 05:04	10
di-Isopropyl ether	ND		10	ug/L			03/21/24 05:04	10
tert-Butanol	ND		100	ug/L			03/21/24 05:04	10
1,4-Dioxane	ND		500	ug/L			03/21/24 05:04	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/21/24 05:04	10
Ethanol	ND		2000	ug/L			03/21/24 05:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		03/21/24 05:04	10
Toluene-d8 (Surr)	100		70 - 130		03/21/24 05:04	10
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		03/21/24 05:04	10
Dibromofluoromethane (Surr)	102		70 - 130		03/21/24 05:04	10

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-9

Date Collected: 03/13/24 09:20

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		10	ug/L			03/21/24 05:29	10
Acetone	130		100	ug/L			03/21/24 05:29	10
Acrylonitrile	ND		5.0	ug/L			03/21/24 05:29	10
Benzene	12		10	ug/L			03/21/24 05:29	10
Bromobenzene	ND		10	ug/L			03/21/24 05:29	10
Bromochloromethane	ND		10	ug/L			03/21/24 05:29	10
Bromodichloromethane	ND		5.0	ug/L			03/21/24 05:29	10
Bromoform	ND		10	ug/L			03/21/24 05:29	10
Bromomethane	ND		20	ug/L			03/21/24 05:29	10
2-Butanone (MEK)	ND		20	ug/L			03/21/24 05:29	10
n-Butylbenzene	ND		10	ug/L			03/21/24 05:29	10
sec-Butylbenzene	ND		10	ug/L			03/21/24 05:29	10
tert-Butylbenzene	ND		10	ug/L			03/21/24 05:29	10
Carbon disulfide	ND		20	ug/L			03/21/24 05:29	10
Carbon tetrachloride	ND		10	ug/L			03/21/24 05:29	10
Chlorobenzene	ND		10	ug/L			03/21/24 05:29	10
Chloroethane	ND		20	ug/L			03/21/24 05:29	10
Chloroform	ND		10	ug/L			03/21/24 05:29	10
Chloromethane	24		20	ug/L			03/21/24 05:29	10
2-Chlorotoluene	ND		10	ug/L			03/21/24 05:29	10
4-Chlorotoluene	ND		10	ug/L			03/21/24 05:29	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			03/21/24 05:29	10
Dibromochloromethane	ND		5.0	ug/L			03/21/24 05:29	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			03/21/24 05:29	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-9

Date Collected: 03/13/24 09:20

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		10	ug/L			03/21/24 05:29	10
1,2-Dichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
1,3-Dichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
1,4-Dichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			03/21/24 05:29	10
1,1-Dichloroethane	ND		10	ug/L			03/21/24 05:29	10
1,2-Dichloroethane	ND		10	ug/L			03/21/24 05:29	10
1,1-Dichloroethene	ND		10	ug/L			03/21/24 05:29	10
cis-1,2-Dichloroethene	ND		10	ug/L			03/21/24 05:29	10
trans-1,2-Dichloroethene	ND		10	ug/L			03/21/24 05:29	10
1,2-Dichloropropane	ND		10	ug/L			03/21/24 05:29	10
1,3-Dichloropropane	ND		10	ug/L			03/21/24 05:29	10
2,2-Dichloropropane	ND		10	ug/L			03/21/24 05:29	10
1,1-Dichloropropene	ND		10	ug/L			03/21/24 05:29	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 05:29	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			03/21/24 05:29	10
Ethylbenzene	ND		10	ug/L			03/21/24 05:29	10
Hexachlorobutadiene	ND		10	ug/L			03/21/24 05:29	10
2-Hexanone (MBK)	ND		20	ug/L			03/21/24 05:29	10
Isopropylbenzene	ND		10	ug/L			03/21/24 05:29	10
4-Isopropyltoluene	ND		10	ug/L			03/21/24 05:29	10
Methyl tert-butyl ether	ND		10	ug/L			03/21/24 05:29	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			03/21/24 05:29	10
Methylene Chloride	ND		20	ug/L			03/21/24 05:29	10
Naphthalene	ND		20	ug/L			03/21/24 05:29	10
N-Propylbenzene	ND		10	ug/L			03/21/24 05:29	10
Styrene	ND		10	ug/L			03/21/24 05:29	10
1,1,1,2-Tetrachloroethane	ND		10	ug/L			03/21/24 05:29	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			03/21/24 05:29	10
Tetrachloroethene	ND		10	ug/L			03/21/24 05:29	10
Toluene	ND		10	ug/L			03/21/24 05:29	10
1,2,3-Trichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
1,2,4-Trichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
1,3,5-Trichlorobenzene	ND		10	ug/L			03/21/24 05:29	10
1,1,1-Trichloroethane	ND		10	ug/L			03/21/24 05:29	10
1,1,2-Trichloroethane	ND		10	ug/L			03/21/24 05:29	10
Trichloroethene	ND		10	ug/L			03/21/24 05:29	10
Trichlorofluoromethane (Freon 11)	ND		10	ug/L			03/21/24 05:29	10
1,2,3-Trichloropropane	ND		10	ug/L			03/21/24 05:29	10
1,2,4-Trimethylbenzene	ND		10	ug/L			03/21/24 05:29	10
1,3,5-Trimethylbenzene	ND		10	ug/L			03/21/24 05:29	10
Vinyl chloride	ND		10	ug/L			03/21/24 05:29	10
m,p-Xylene	ND	*+	10	ug/L			03/21/24 05:29	10
o-Xylene	ND		10	ug/L			03/21/24 05:29	10
Tetrahydrofuran	ND		20	ug/L			03/21/24 05:29	10
Ethyl ether	ND		10	ug/L			03/21/24 05:29	10
Tert-amyl methyl ether	ND		10	ug/L			03/21/24 05:29	10
Ethyl tert-butyl ether	ND		10	ug/L			03/21/24 05:29	10
di-Isopropyl ether	ND		10	ug/L			03/21/24 05:29	10

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-9

Date Collected: 03/13/24 09:20

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		100	ug/L			03/21/24 05:29	10
1,4-Dioxane	ND		500	ug/L			03/21/24 05:29	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			03/21/24 05:29	10
Ethanol	ND		2000	ug/L			03/21/24 05:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/21/24 05:29	10
Toluene-d8 (Surr)	101		70 - 130		03/21/24 05:29	10
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		03/21/24 05:29	10
Dibromofluoromethane (Surr)	103		70 - 130		03/21/24 05:29	10

Client Sample ID: 4R Day 30,ctrl

Lab Sample ID: 620-17406-10

Date Collected: 03/13/24 09:30

Matrix: Water

Date Received: 03/14/24 17:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/21/24 03:47	1
Acetone	ND		10	ug/L			03/21/24 03:47	1
Acrylonitrile	ND		0.50	ug/L			03/21/24 03:47	1
Benzene	83		1.0	ug/L			03/21/24 03:47	1
Bromobenzene	ND		1.0	ug/L			03/21/24 03:47	1
Bromochloromethane	ND		1.0	ug/L			03/21/24 03:47	1
Bromodichloromethane	ND		0.50	ug/L			03/21/24 03:47	1
Bromoform	ND		1.0	ug/L			03/21/24 03:47	1
Bromomethane	ND		2.0	ug/L			03/21/24 03:47	1
2-Butanone (MEK)	ND		2.0	ug/L			03/21/24 03:47	1
n-Butylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
sec-Butylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
tert-Butylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
Carbon disulfide	ND		2.0	ug/L			03/21/24 03:47	1
Carbon tetrachloride	ND		1.0	ug/L			03/21/24 03:47	1
Chlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
Chloroethane	ND		2.0	ug/L			03/21/24 03:47	1
Chloroform	ND		1.0	ug/L			03/21/24 03:47	1
Chloromethane	ND		2.0	ug/L			03/21/24 03:47	1
2-Chlorotoluene	ND		1.0	ug/L			03/21/24 03:47	1
4-Chlorotoluene	ND		1.0	ug/L			03/21/24 03:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/21/24 03:47	1
Dibromochloromethane	ND		0.50	ug/L			03/21/24 03:47	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/21/24 03:47	1
Dibromomethane	ND		1.0	ug/L			03/21/24 03:47	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/21/24 03:47	1
1,1-Dichloroethane	ND		1.0	ug/L			03/21/24 03:47	1
1,2-Dichloroethane	ND		1.0	ug/L			03/21/24 03:47	1
1,1-Dichloroethene	ND		1.0	ug/L			03/21/24 03:47	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30,ctrl

Lab Sample ID: 620-17406-10

Date Collected: 03/13/24 09:30

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/21/24 03:47	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/21/24 03:47	1
1,2-Dichloropropane	ND		1.0	ug/L			03/21/24 03:47	1
1,3-Dichloropropane	ND		1.0	ug/L			03/21/24 03:47	1
2,2-Dichloropropane	ND		1.0	ug/L			03/21/24 03:47	1
1,1-Dichloropropene	ND		1.0	ug/L			03/21/24 03:47	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/21/24 03:47	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/21/24 03:47	1
Ethylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
Hexachlorobutadiene	ND		1.0	ug/L			03/21/24 03:47	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/21/24 03:47	1
Isopropylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
4-Isopropyltoluene	ND		1.0	ug/L			03/21/24 03:47	1
Methyl tert-butyl ether	34		1.0	ug/L			03/21/24 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/21/24 03:47	1
Methylene Chloride	ND		2.0	ug/L			03/21/24 03:47	1
Naphthalene	ND		2.0	ug/L			03/21/24 03:47	1
N-Propylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
Styrene	ND		1.0	ug/L			03/21/24 03:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/21/24 03:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/21/24 03:47	1
Tetrachloroethene	ND		1.0	ug/L			03/21/24 03:47	1
Toluene	ND		1.0	ug/L			03/21/24 03:47	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/21/24 03:47	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/21/24 03:47	1
Trichloroethene	ND		1.0	ug/L			03/21/24 03:47	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/21/24 03:47	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/21/24 03:47	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/21/24 03:47	1
Vinyl chloride	ND		1.0	ug/L			03/21/24 03:47	1
m,p-Xylene	ND	+	1.0	ug/L			03/21/24 03:47	1
o-Xylene	ND		1.0	ug/L			03/21/24 03:47	1
Tetrahydrofuran	ND		2.0	ug/L			03/21/24 03:47	1
Ethyl ether	ND		1.0	ug/L			03/21/24 03:47	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/21/24 03:47	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/21/24 03:47	1
di-Isopropyl ether	ND		1.0	ug/L			03/21/24 03:47	1
tert-Butanol	10		10	ug/L			03/21/24 03:47	1
1,4-Dioxane	ND		50	ug/L			03/21/24 03:47	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/21/24 03:47	1
Ethanol	ND		200	ug/L			03/21/24 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		03/21/24 03:47	1
Toluene-d8 (Surr)	101		70 - 130		03/21/24 03:47	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		03/21/24 03:47	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30,ctrl

Lab Sample ID: 620-17406-10

Date Collected: 03/13/24 09:30

Matrix: Water

Date Received: 03/14/24 17:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		70 - 130		03/21/24 03:47	1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-11

Date Collected: 03/13/24 08:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Acetone	ND		28	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Acrylonitrile	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Benzene	230	E	2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Bromobenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Bromochloromethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Bromodichloromethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Bromoform	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Bromomethane	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
2-Butanone (MEK)	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
n-Butylbenzene	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
sec-Butylbenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
tert-Butylbenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Carbon disulfide	32		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Carbon tetrachloride	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Chlorobenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Chloroethane	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Chloroform	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Chloromethane	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
2-Chlorotoluene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
4-Chlorotoluene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,2-Dibromo-3-Chloropropane	ND		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Dibromochloromethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,2-Dibromoethane (EDB)	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Dibromomethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,2-Dichlorobenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,3-Dichlorobenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,4-Dichlorobenzene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Dichlorodifluoromethane (Freon 12)	ND *-		5.6	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,1-Dichloroethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,2-Dichloroethane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,1-Dichloroethene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
cis-1,2-Dichloroethene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
trans-1,2-Dichloroethene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,2-Dichloropropane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,3-Dichloropropane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
2,2-Dichloropropane	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
1,1-Dichloropropene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
cis-1,3-Dichloropropene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
trans-1,3-Dichloropropene	ND		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1
Ethylbenzene	84		2.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:19	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-11

Date Collected: 03/13/24 08:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		5.6	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
2-Hexanone (MBK)	ND		5.6	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Isopropylbenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
4-Isopropyltoluene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Methyl tert-butyl ether	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Methylene Chloride	ND		5.6	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Naphthalene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
N-Propylbenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Styrene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,1,1,2-Tetrachloroethane	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,1,2,2-Tetrachloroethane	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Tetrachloroethene	5.9		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Toluene	240	E	2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,2,3-Trichlorobenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,2,4-Trichlorobenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,3,5-Trichlorobenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,1,1-Trichloroethane	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,1,2-Trichloroethane	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Trichloroethene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Trichlorofluoromethane (Freon 11)	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,2,3-Trichloropropane	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,2,4-Trimethylbenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,3,5-Trimethylbenzene	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Vinyl chloride	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
m,p-Xylene	210	E	2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
o-Xylene	160	E	2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Tetrahydrofuran	ND		5.6	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Ethyl ether	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Tert-amyl methyl ether	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Ethyl tert-butyl ether	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
di-Isopropyl ether	ND		2.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
tert-Butanol	ND		56	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
1,4-Dioxane	ND		56	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
trans-1,4-Dichloro-2-butene	ND		14	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1
Ethanol	ND		560	ug/Kg	✱	03/19/24 12:54	03/19/24 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 15:19	1
Toluene-d8 (Surr)	107		70 - 130	03/19/24 12:54	03/19/24 15:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 15:19	1
Dibromofluoromethane (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 15:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	36	ug/Kg	✱	03/21/24 09:00	03/21/24 12:28	1
Acetone	ND		360	ug/Kg	✱	03/21/24 09:00	03/21/24 12:28	1
Acrylonitrile	ND		36	ug/Kg	✱	03/21/24 09:00	03/21/24 12:28	1
Benzene	810		36	ug/Kg	✱	03/21/24 09:00	03/21/24 12:28	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-11

Date Collected: 03/13/24 08:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Bromochloromethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Bromodichloromethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Bromoform	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Bromomethane	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
2-Butanone (MEK)	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
n-Butylbenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
sec-Butylbenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
tert-Butylbenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Carbon disulfide	72		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Carbon tetrachloride	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Chlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Chloroethane	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Chloroform	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Chloromethane	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
2-Chlorotoluene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
4-Chlorotoluene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2-Dibromo-3-Chloropropane	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Dibromochloromethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2-Dibromoethane (EDB)	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Dibromomethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2-Dichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,3-Dichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,4-Dichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Dichlorodifluoromethane (Freon 12)	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1-Dichloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2-Dichloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1-Dichloroethene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
cis-1,2-Dichloroethene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
trans-1,2-Dichloroethene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2-Dichloropropane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,3-Dichloropropane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
2,2-Dichloropropane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1-Dichloropropene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
cis-1,3-Dichloropropene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
trans-1,3-Dichloropropene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Ethylbenzene	850		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Hexachlorobutadiene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
2-Hexanone (MBK)	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Isopropylbenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
4-Isopropyltoluene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Methyl tert-butyl ether	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Methylene Chloride	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Naphthalene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
N-Propylbenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Styrene	78		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1,1,2-Tetrachloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1,2,2-Tetrachloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Lab Sample ID: 620-17406-11

Date Collected: 03/13/24 08:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	48		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Toluene	1400		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2,3-Trichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2,4-Trichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,3,5-Trichlorobenzene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1,1-Trichloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,1,2-Trichloroethane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Trichloroethene	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Trichlorofluoromethane (Freon 11)	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2,3-Trichloropropane	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,2,4-Trimethylbenzene	60		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,3,5-Trimethylbenzene	39		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Vinyl chloride	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
m,p-Xylene	2800	+	36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
o-Xylene	1600		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Tetrahydrofuran	ND		72	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Ethyl ether	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Tert-amyl methyl ether	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Ethyl tert-butyl ether	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
di-Isopropyl ether	ND		36	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
tert-Butanol	ND		720	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
1,4-Dioxane	ND		720	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
trans-1,4-Dichloro-2-butene	ND		180	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1
Ethanol	ND		7200	ug/Kg	☆	03/21/24 09:00	03/21/24 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 12:28	1
Toluene-d8 (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 12:28	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	03/21/24 09:00	03/21/24 12:28	1
Dibromofluoromethane (Surr)	98		70 - 130	03/21/24 09:00	03/21/24 12:28	1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Date Collected: 03/13/24 08:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Acetone	ND		38	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Acrylonitrile	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Benzene	250	E	3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Bromobenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Bromochloromethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Bromodichloromethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Bromoform	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
Bromomethane	ND		7.5	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
2-Butanone (MEK)	ND		7.5	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
n-Butylbenzene	ND		7.5	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1
sec-Butylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 15:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Date Collected: 03/13/24 08:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Carbon disulfide	46		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Carbon tetrachloride	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Chlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Chloroethane	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Chloroform	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Chloromethane	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
2-Chlorotoluene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
4-Chlorotoluene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2-Dibromo-3-Chloropropane	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Dibromochloromethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2-Dibromoethane (EDB)	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Dibromomethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2-Dichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,3-Dichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,4-Dichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Dichlorodifluoromethane (Freon 12)	ND	*	7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1-Dichloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2-Dichloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1-Dichloroethene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
cis-1,2-Dichloroethene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
trans-1,2-Dichloroethene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2-Dichloropropane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,3-Dichloropropane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
2,2-Dichloropropane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1-Dichloropropene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
cis-1,3-Dichloropropene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
trans-1,3-Dichloropropene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Ethylbenzene	100		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Hexachlorobutadiene	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
2-Hexanone (MBK)	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Isopropylbenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
4-Isopropyltoluene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Methyl tert-butyl ether	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Methylene Chloride	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Naphthalene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
N-Propylbenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Styrene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1,1,2-Tetrachloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1,2,2-Tetrachloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Tetrachloroethene	9.4		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Toluene	260	E	3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2,3-Trichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2,4-Trichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,3,5-Trichlorobenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1,1-Trichloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,1,2-Trichloroethane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Trichloroethene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1

Eurolins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Date Collected: 03/13/24 08:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2,3-Trichloropropane	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,2,4-Trimethylbenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,3,5-Trimethylbenzene	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Vinyl chloride	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
m,p-Xylene	230	E	3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
o-Xylene	180	E	3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Tetrahydrofuran	ND		7.5	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Ethyl ether	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Tert-amyl methyl ether	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Ethyl tert-butyl ether	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
di-Isopropyl ether	ND		3.8	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
tert-Butanol	ND		75	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
1,4-Dioxane	ND		75	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
trans-1,4-Dichloro-2-butene	ND		19	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1
Ethanol	ND		750	ug/Kg	✱	03/19/24 12:54	03/19/24 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/19/24 12:54	03/19/24 15:44	1
Toluene-d8 (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 15:44	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 15:44	1
Dibromofluoromethane (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 15:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Acetone	ND		560	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Acrylonitrile	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Benzene	700		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Bromobenzene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Bromochloromethane	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Bromodichloromethane	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Bromoform	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Bromomethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
2-Butanone (MEK)	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
n-Butylbenzene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
sec-Butylbenzene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
tert-Butylbenzene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Carbon disulfide	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Carbon tetrachloride	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Chlorobenzene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Chloroethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Chloroform	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Chloromethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
2-Chlorotoluene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
4-Chlorotoluene	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
1,2-Dibromo-3-Chloropropane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Dibromochloromethane	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
1,2-Dibromoethane (EDB)	ND		56	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Date Collected: 03/13/24 08:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2-Dichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,3-Dichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,4-Dichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Dichlorodifluoromethane (Freon 12)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1-Dichloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2-Dichloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1-Dichloroethene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
cis-1,2-Dichloroethene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
trans-1,2-Dichloroethene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2-Dichloropropane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,3-Dichloropropane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
2,2-Dichloropropane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1-Dichloropropene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
cis-1,3-Dichloropropene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
trans-1,3-Dichloropropene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Ethylbenzene	1000		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Hexachlorobutadiene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
2-Hexanone (MBK)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Isopropylbenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
4-Isopropyltoluene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Methyl tert-butyl ether	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Methylene Chloride	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Naphthalene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
N-Propylbenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Styrene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1,1,2-Tetrachloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1,2,2-Tetrachloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Tetrachloroethene	75		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Toluene	1400		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2,3-Trichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2,4-Trichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,3,5-Trichlorobenzene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1,1-Trichloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,1,2-Trichloroethane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Trichloroethene	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Trichlorofluoromethane (Freon 11)	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2,3-Trichloropropane	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,2,4-Trimethylbenzene	110		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
1,3,5-Trimethylbenzene	70		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Vinyl chloride	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
m,p-Xylene	3100	+	56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
o-Xylene	1800		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Tetrahydrofuran	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Ethyl ether	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Tert-amyl methyl ether	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
Ethyl tert-butyl ether	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1
di-Isopropyl ether	ND		56	ug/Kg	☆	03/21/24 09:00	03/21/24 12:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Lab Sample ID: 620-17406-12

Date Collected: 03/13/24 08:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		1100	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
1,4-Dioxane	ND		1100	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
trans-1,4-Dichloro-2-butene	ND		280	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Ethanol	ND		11000	ug/Kg	✱	03/21/24 09:00	03/21/24 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/21/24 09:00	03/21/24 12:53	1
Toluene-d8 (Surr)	102		70 - 130			03/21/24 09:00	03/21/24 12:53	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130			03/21/24 09:00	03/21/24 12:53	1
Dibromofluoromethane (Surr)	98		70 - 130			03/21/24 09:00	03/21/24 12:53	1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-13

Date Collected: 03/13/24 08:22

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Acetone	36		32	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Acrylonitrile	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Benzene	200	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Bromobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Bromochloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Bromodichloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Bromoform	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Bromomethane	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
2-Butanone (MEK)	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
n-Butylbenzene	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
sec-Butylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
tert-Butylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Carbon disulfide	21		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Carbon tetrachloride	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Chlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Chloroethane	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Chloroform	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Chloromethane	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
2-Chlorotoluene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
4-Chlorotoluene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,2-Dibromo-3-Chloropropane	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Dibromochloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,2-Dibromoethane (EDB)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Dibromomethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,2-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,3-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,4-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
Dichlorodifluoromethane (Freon 12)	ND	-	6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,1-Dichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,2-Dichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1
1,1-Dichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 16:10	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-13

Date Collected: 03/13/24 08:22

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
trans-1,2-Dichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,2-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,3-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
2,2-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,1-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
cis-1,3-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
trans-1,3-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Ethylbenzene	92		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Hexachlorobutadiene	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
2-Hexanone (MBK)	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Isopropylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
4-Isopropyltoluene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Methyl tert-butyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
4-Methyl-2-pentanone (MIBK)	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Methylene Chloride	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Naphthalene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
N-Propylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Styrene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,1,1,2-Tetrachloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,1,2,2-Tetrachloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Tetrachloroethene	10		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Toluene	210	E	3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,2,3-Trichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,2,4-Trichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,3,5-Trichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,1,1-Trichloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,1,2-Trichloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Trichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Trichlorofluoromethane (Freon 11)	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,2,3-Trichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,2,4-Trimethylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,3,5-Trimethylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Vinyl chloride	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
m,p-Xylene	190	E	3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
o-Xylene	150	E	3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Tetrahydrofuran	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Ethyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Tert-amyl methyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Ethyl tert-butyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
di-Isopropyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
tert-Butanol	ND		64	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
1,4-Dioxane	ND		64	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
trans-1,4-Dichloro-2-butene	ND		16	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1
Ethanol	ND		640	ug/Kg	☆	03/19/24 12:54	03/19/24 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/19/24 12:54	03/19/24 16:10	1
Toluene-d8 (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 16:10	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 16:10	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-13

Date Collected: 03/13/24 08:22

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 16:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Acetone	ND		370	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Acrylonitrile	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Benzene	1100		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Bromobenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Bromochloromethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Bromodichloromethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Bromoform	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Bromomethane	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
2-Butanone (MEK)	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
n-Butylbenzene	40		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
sec-Butylbenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
tert-Butylbenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Carbon disulfide	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Carbon tetrachloride	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Chlorobenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Chloroethane	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Chloroform	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Chloromethane	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
2-Chlorotoluene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
4-Chlorotoluene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,2-Dibromo-3-Chloropropane	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Dibromochloromethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,2-Dibromoethane (EDB)	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Dibromomethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,2-Dichlorobenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,3-Dichlorobenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,4-Dichlorobenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Dichlorodifluoromethane (Freon 12)	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,1-Dichloroethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,2-Dichloroethane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,1-Dichloroethene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
cis-1,2-Dichloroethene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
trans-1,2-Dichloroethene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,2-Dichloropropane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,3-Dichloropropane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
2,2-Dichloropropane	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
1,1-Dichloropropene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
cis-1,3-Dichloropropene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
trans-1,3-Dichloropropene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Ethylbenzene	1100		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Hexachlorobutadiene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
2-Hexanone (MBK)	ND		74	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1
Isopropylbenzene	ND		37	ug/Kg	☆	03/21/24 09:00	03/21/24 13:19	1

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 2x

Lab Sample ID: 620-17406-13

Date Collected: 03/13/24 08:22

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Methyl tert-butyl ether	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		74	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Methylene Chloride	ND		74	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Naphthalene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
N-Propylbenzene	47		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Styrene	87		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,1,1,2-Tetrachloroethane	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,1,2,2-Tetrachloroethane	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Tetrachloroethene	87		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Toluene	1700		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,2,3-Trichlorobenzene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,2,4-Trichlorobenzene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,3,5-Trichlorobenzene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,1,1-Trichloroethane	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,1,2-Trichloroethane	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Trichloroethene	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Trichlorofluoromethane (Freon 11)	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,2,3-Trichloropropane	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,2,4-Trimethylbenzene	130		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,3,5-Trimethylbenzene	63		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Vinyl chloride	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
m,p-Xylene	3000	+	37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
o-Xylene	1800		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Tetrahydrofuran	ND		74	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Ethyl ether	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Tert-amyl methyl ether	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Ethyl tert-butyl ether	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
di-Isopropyl ether	ND		37	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
tert-Butanol	ND		740	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
1,4-Dioxane	ND		740	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
trans-1,4-Dichloro-2-butene	ND		180	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1
Ethanol	ND		7400	ug/Kg	☼	03/21/24 09:00	03/21/24 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/24 09:00	03/21/24 13:19	1
Toluene-d8 (Surr)	102		70 - 130	03/21/24 09:00	03/21/24 13:19	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130	03/21/24 09:00	03/21/24 13:19	1
Dibromofluoromethane (Surr)	100		70 - 130	03/21/24 09:00	03/21/24 13:19	1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.7	ug/Kg	☼	03/19/24 12:54	03/19/24 16:37	1
Acetone	71		47	ug/Kg	☼	03/19/24 12:54	03/19/24 16:37	1
Acrylonitrile	ND		4.7	ug/Kg	☼	03/19/24 12:54	03/19/24 16:37	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	200	E	4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Bromobenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Bromochloromethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Bromodichloromethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Bromoform	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Bromomethane	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
2-Butanone (MEK)	11		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
n-Butylbenzene	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
sec-Butylbenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
tert-Butylbenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Carbon disulfide	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Carbon tetrachloride	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Chlorobenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Chloroethane	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Chloroform	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Chloromethane	21		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
2-Chlorotoluene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
4-Chlorotoluene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,2-Dibromo-3-Chloropropane	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Dibromochloromethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,2-Dibromoethane (EDB)	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Dibromomethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,2-Dichlorobenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,3-Dichlorobenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,4-Dichlorobenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Dichlorodifluoromethane (Freon 12)	ND	*	9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,1-Dichloroethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,2-Dichloroethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,1-Dichloroethene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
cis-1,2-Dichloroethene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
trans-1,2-Dichloroethene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,2-Dichloropropane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,3-Dichloropropane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
2,2-Dichloropropane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,1-Dichloropropene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
cis-1,3-Dichloropropene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
trans-1,3-Dichloropropene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Ethylbenzene	91		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Hexachlorobutadiene	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
2-Hexanone (MBK)	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Isopropylbenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
4-Isopropyltoluene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Methyl tert-butyl ether	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
4-Methyl-2-pentanone (MIBK)	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Methylene Chloride	ND		9.5	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Naphthalene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
N-Propylbenzene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
Styrene	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1
1,1,1,2-Tetrachloroethane	ND		4.7	ug/Kg	✱	03/19/24 12:54	03/19/24 16:37	1

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Tetrachloroethene	11		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Toluene	210	E	4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,2,3-Trichlorobenzene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,2,4-Trichlorobenzene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,3,5-Trichlorobenzene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,1,1-Trichloroethane	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,1,2-Trichloroethane	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Trichloroethene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Trichlorofluoromethane (Freon 11)	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,2,3-Trichloropropane	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,2,4-Trimethylbenzene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,3,5-Trimethylbenzene	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Vinyl chloride	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
m,p-Xylene	170		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
o-Xylene	140		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Tetrahydrofuran	ND		9.5	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Ethyl ether	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Tert-amyl methyl ether	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Ethyl tert-butyl ether	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
di-Isopropyl ether	ND		4.7	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
tert-Butanol	ND		95	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
1,4-Dioxane	ND		95	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
trans-1,4-Dichloro-2-butene	ND		24	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1
Ethanol	ND		950	ug/Kg	☆	03/19/24 12:54	03/19/24 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 16:37	1
Toluene-d8 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 16:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 16:37	1
Dibromofluoromethane (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Acetone	ND		400	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Acrylonitrile	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Benzene	460		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Bromobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Bromochloromethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Bromodichloromethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Bromoform	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Bromomethane	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
2-Butanone (MEK)	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
n-Butylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
sec-Butylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
tert-Butylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Carbon disulfide	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Carbon tetrachloride	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Chloroethane	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Chloroform	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Chloromethane	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
2-Chlorotoluene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
4-Chlorotoluene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2-Dibromo-3-Chloropropane	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Dibromochloromethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2-Dibromoethane (EDB)	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Dibromomethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2-Dichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,3-Dichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,4-Dichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Dichlorodifluoromethane (Freon 12)	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1-Dichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2-Dichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
cis-1,2-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
trans-1,2-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,3-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
2,2-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
cis-1,3-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
trans-1,3-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Ethylbenzene	480		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Hexachlorobutadiene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
2-Hexanone (MBK)	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Isopropylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
4-Isopropyltoluene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Methyl tert-butyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Methylene Chloride	ND		80	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Naphthalene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
N-Propylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Styrene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1,1,2-Tetrachloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Tetrachloroethene	48		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Toluene	720		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2,3-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2,4-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,3,5-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1,1-Trichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,1,2-Trichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Trichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
Trichlorofluoromethane (Freon 11)	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2,3-Trichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1
1,2,4-Trimethylbenzene	64		40	ug/Kg	☆	03/21/24 09:00	03/21/24 13:45	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Vinyl chloride	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
m,p-Xylene	1200	++	40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
o-Xylene	870		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Tetrahydrofuran	ND		80	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Ethyl ether	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Tert-amyl methyl ether	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Ethyl tert-butyl ether	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
di-Isopropyl ether	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
tert-Butanol	ND		800	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
1,4-Dioxane	ND		800	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
trans-1,4-Dichloro-2-butene	ND		200	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1
Ethanol	ND		8000	ug/Kg	✱	03/21/24 09:00	03/21/24 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/21/24 09:00	03/21/24 13:45	1
Toluene-d8 (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 13:45	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	03/21/24 09:00	03/21/24 13:45	1
Dibromofluoromethane (Surr)	99		70 - 130	03/21/24 09:00	03/21/24 13:45	1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Acetone	ND		37	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Acrylonitrile	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Benzene	340	E	3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Bromobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Bromochloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Bromodichloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Bromoform	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Bromomethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
2-Butanone (MEK)	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
n-Butylbenzene	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
sec-Butylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
tert-Butylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Carbon disulfide	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Carbon tetrachloride	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Chlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Chloroethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Chloroform	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Chloromethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
2-Chlorotoluene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
4-Chlorotoluene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
1,2-Dibromo-3-Chloropropane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Dibromochloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Dibromomethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2-Dichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,3-Dichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,4-Dichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Dichlorodifluoromethane (Freon 12)	ND	*-	7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1-Dichloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2-Dichloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1-Dichloroethene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2-Dichloropropane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,3-Dichloropropane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
2,2-Dichloropropane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1-Dichloropropene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Ethylbenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Hexachlorobutadiene	ND		7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
2-Hexanone (MBK)	ND		7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Isopropylbenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
4-Isopropyltoluene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Methyl tert-butyl ether	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Methylene Chloride	ND		7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Naphthalene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
N-Propylbenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Styrene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Tetrachloroethene	10		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Toluene	270 E		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,3,5-Trichlorobenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1,1-Trichloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,1,2-Trichloroethane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Trichloroethene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Trichlorofluoromethane (Freon 11)	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2,3-Trichloropropane	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Vinyl chloride	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
m,p-Xylene	190 E		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
o-Xylene	250 E		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Tetrahydrofuran	ND		7.4	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Ethyl ether	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Tert-amyl methyl ether	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1
Ethyl tert-butyl ether	ND		3.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
di-Isopropyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
tert-Butanol	ND		74	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
1,4-Dioxane	ND		74	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1
Ethanol	ND		740	ug/Kg	✱	03/19/24 12:54	03/19/24 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/19/24 12:54	03/19/24 17:02	1
Toluene-d8 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 17:02	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	03/19/24 12:54	03/19/24 17:02	1
Dibromofluoromethane (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 17:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1900		79	ug/Kg	✱	03/21/24 09:00	03/22/24 13:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/21/24 09:00	03/22/24 13:48	2
Toluene-d8 (Surr)	99		70 - 130	03/21/24 09:00	03/22/24 13:48	2
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	03/21/24 09:00	03/22/24 13:48	2
Dibromofluoromethane (Surr)	98		70 - 130	03/21/24 09:00	03/22/24 13:48	2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Acetone	ND		400	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Acrylonitrile	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Benzene	1200		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Bromobenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Bromochloromethane	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Bromodichloromethane	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Bromoform	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Bromomethane	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
2-Butanone (MEK)	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
n-Butylbenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
sec-Butylbenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
tert-Butylbenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Carbon disulfide	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Carbon tetrachloride	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Chlorobenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Chloroethane	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Chloroform	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Chloromethane	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
2-Chlorotoluene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
4-Chlorotoluene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
1,2-Dibromo-3-Chloropropane	ND		79	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Dibromochloromethane	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
1,2-Dibromoethane (EDB)	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
Dibromomethane	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1
1,2-Dichlorobenzene	ND		40	ug/Kg	✱	03/21/24 09:00	03/21/24 15:28	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,4-Dichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Dichlorodifluoromethane (Freon 12)	ND		79	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1-Dichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2-Dichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
cis-1,2-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
trans-1,2-Dichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,3-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
2,2-Dichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
cis-1,3-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
trans-1,3-Dichloropropene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Ethylbenzene	210		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Hexachlorobutadiene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
2-Hexanone (MBK)	ND		79	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Isopropylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
4-Isopropyltoluene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Methyl tert-butyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		79	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Methylene Chloride	ND		79	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Naphthalene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
N-Propylbenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Styrene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1,1,2-Tetrachloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1,2,2-Tetrachloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Tetrachloroethene	56		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Toluene	1800		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2,3-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2,4-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,3,5-Trichlorobenzene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1,1-Trichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,1,2-Trichloroethane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Trichloroethene	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Trichlorofluoromethane (Freon 11)	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2,3-Trichloropropane	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,2,4-Trimethylbenzene	57		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,3,5-Trimethylbenzene	41		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Vinyl chloride	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
m,p-Xylene	2900	*+	40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Tetrahydrofuran	ND		79	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Ethyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Tert-amyl methyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
Ethyl tert-butyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
di-Isopropyl ether	ND		40	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
tert-Butanol	ND		790	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
1,4-Dioxane	ND		790	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1
trans-1,4-Dichloro-2-butene	ND		200	ug/Kg	☆	03/21/24 09:00	03/21/24 15:28	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		7900	ug/Kg	☼	03/21/24 09:00	03/21/24 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/21/24 09:00	03/21/24 15:28	1
Toluene-d8 (Surr)	100		70 - 130			03/21/24 09:00	03/21/24 15:28	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130			03/21/24 09:00	03/21/24 15:28	1
Dibromofluoromethane (Surr)	98		70 - 130			03/21/24 09:00	03/21/24 15:28	1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Acetone	ND		38	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Acrylonitrile	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Benzene	320	E	3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Bromobenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Bromochloromethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Bromodichloromethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Bromoform	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Bromomethane	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
2-Butanone (MEK)	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
n-Butylbenzene	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
sec-Butylbenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
tert-Butylbenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Carbon disulfide	69		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Carbon tetrachloride	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Chlorobenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Chloroethane	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Chloroform	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Chloromethane	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
2-Chlorotoluene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
4-Chlorotoluene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,2-Dibromo-3-Chloropropane	ND		7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Dibromochloromethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,2-Dibromoethane (EDB)	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Dibromomethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,2-Dichlorobenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,3-Dichlorobenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,4-Dichlorobenzene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
Dichlorodifluoromethane (Freon 12)	ND	*	7.7	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,1-Dichloroethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,2-Dichloroethane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,1-Dichloroethene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
cis-1,2-Dichloroethene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
trans-1,2-Dichloroethene	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1
1,2-Dichloropropane	ND		3.8	ug/Kg	☼	03/19/24 12:54	03/19/24 17:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
2,2-Dichloropropane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,1-Dichloropropene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
cis-1,3-Dichloropropene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
trans-1,3-Dichloropropene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Ethylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Hexachlorobutadiene	ND		7.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
2-Hexanone (MBK)	ND		7.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Isopropylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
4-Isopropyltoluene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Methyl tert-butyl ether	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		7.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Methylene Chloride	ND		7.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Naphthalene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
N-Propylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Styrene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,1,1,2-Tetrachloroethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,1,2,2-Tetrachloroethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Tetrachloroethene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Toluene	4.9		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,2,3-Trichlorobenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,2,4-Trichlorobenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,3,5-Trichlorobenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,1,1-Trichloroethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,1,2-Trichloroethane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Trichloroethene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Trichlorofluoromethane (Freon 11)	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,2,3-Trichloropropane	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,2,4-Trimethylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,3,5-Trimethylbenzene	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Vinyl chloride	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
m,p-Xylene	3.9		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
o-Xylene	5.3		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Tetrahydrofuran	ND		7.7	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Ethyl ether	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Tert-amyl methyl ether	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Ethyl tert-butyl ether	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
di-Isopropyl ether	ND		3.8	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
tert-Butanol	ND		77	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
1,4-Dioxane	ND		77	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
trans-1,4-Dichloro-2-butene	ND		19	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1
Ethanol	ND		770	ug/Kg	☆	03/19/24 12:54	03/19/24 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 17:27	1
Toluene-d8 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 17:27	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	03/19/24 12:54	03/19/24 17:27	1
Dibromofluoromethane (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 17:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Acetone	ND		380	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Acrylonitrile	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Benzene	880		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Bromobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Bromochloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Bromodichloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Bromoform	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Bromomethane	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
2-Butanone (MEK)	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
n-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
sec-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
tert-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Carbon disulfide	180		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Carbon tetrachloride	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Chlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Chloroethane	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Chloroform	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Chloromethane	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
2-Chlorotoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
4-Chlorotoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,2-Dibromo-3-Chloropropane	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Dibromochloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,2-Dibromoethane (EDB)	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Dibromomethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,2-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,3-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,4-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Dichlorodifluoromethane (Freon 12)	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,1-Dichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,2-Dichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,1-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
cis-1,2-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
trans-1,2-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,2-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,3-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
2,2-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
1,1-Dichloropropene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
cis-1,3-Dichloropropene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
trans-1,3-Dichloropropene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Ethylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Hexachlorobutadiene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
2-Hexanone (MBK)	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Isopropylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
4-Isopropyltoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Methyl tert-butyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Methylene Chloride	ND		75	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1
Naphthalene	ND		38	ug/Kg	☆	03/21/24 09:00	03/21/24 15:54	1

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Styrene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,1,1,2-Tetrachloroethane	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,1,2,2-Tetrachloroethane	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Tetrachloroethene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Toluene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,2,3-Trichlorobenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,2,4-Trichlorobenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,3,5-Trichlorobenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,1,1-Trichloroethane	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,1,2-Trichloroethane	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Trichloroethene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Trichlorofluoromethane (Freon 11)	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,2,3-Trichloropropane	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,2,4-Trimethylbenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,3,5-Trimethylbenzene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Vinyl chloride	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
m,p-Xylene	ND	*+	38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
o-Xylene	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Tetrahydrofuran	ND		75	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Ethyl ether	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Tert-amyl methyl ether	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Ethyl tert-butyl ether	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
di-Isopropyl ether	ND		38	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
tert-Butanol	ND		750	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
1,4-Dioxane	ND		750	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
trans-1,4-Dichloro-2-butene	ND		190	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1
Ethanol	ND		7500	ug/Kg	✱	03/21/24 09:00	03/21/24 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 15:54	1
Toluene-d8 (Surr)	102		70 - 130	03/21/24 09:00	03/21/24 15:54	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	03/21/24 09:00	03/21/24 15:54	1
Dibromofluoromethane (Surr)	99		70 - 130	03/21/24 09:00	03/21/24 15:54	1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-17

Date Collected: 03/13/24 09:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Acetone	ND		39	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Acrylonitrile	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Benzene	230	E	3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Bromobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Bromochloromethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Bromodichloromethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Bromoform	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-17

Date Collected: 03/13/24 09:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
2-Butanone (MEK)	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
n-Butylbenzene	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
sec-Butylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
tert-Butylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Carbon disulfide	110		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Carbon tetrachloride	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Chlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Chloroethane	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Chloroform	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Chloromethane	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
2-Chlorotoluene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
4-Chlorotoluene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2-Dibromo-3-Chloropropane	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Dibromochloromethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2-Dibromoethane (EDB)	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Dibromomethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2-Dichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,3-Dichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,4-Dichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Dichlorodifluoromethane (Freon 12)	ND	*	7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1-Dichloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2-Dichloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1-Dichloroethene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2-Dichloropropane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,3-Dichloropropane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
2,2-Dichloropropane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1-Dichloropropene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Ethylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Hexachlorobutadiene	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
2-Hexanone (MBK)	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Isopropylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
4-Isopropyltoluene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Methyl tert-butyl ether	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Methylene Chloride	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Naphthalene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
N-Propylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Styrene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Tetrachloroethene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Toluene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-17

Date Collected: 03/13/24 09:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1,1-Trichloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,1,2-Trichloroethane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Trichloroethene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Trichlorofluoromethane (Freon 11)	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2,3-Trichloropropane	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Vinyl chloride	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
m,p-Xylene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
o-Xylene	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Tetrahydrofuran	ND		7.8	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Ethyl ether	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Tert-amyl methyl ether	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Ethyl tert-butyl ether	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
di-Isopropyl ether	ND		3.9	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
tert-Butanol	ND		78	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
1,4-Dioxane	ND		78	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
trans-1,4-Dichloro-2-butene	ND		19	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1
Ethanol	ND		780	ug/Kg	✱	03/19/24 12:54	03/19/24 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 17:53	1
Toluene-d8 (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 17:53	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	03/19/24 12:54	03/19/24 17:53	1
Dibromofluoromethane (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 17:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Acetone	ND		550	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Acrylonitrile	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Benzene	790		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Bromobenzene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Bromochloromethane	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Bromodichloromethane	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Bromoform	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Bromomethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
2-Butanone (MEK)	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
n-Butylbenzene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
sec-Butylbenzene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
tert-Butylbenzene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Carbon disulfide	190		110	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Carbon tetrachloride	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Chlorobenzene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Chloroethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Chloroform	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Chloromethane	ND		110	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
2-Chlorotoluene	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Lab Sample ID: 620-17406-17

Date Collected: 03/13/24 09:02

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2-Dibromo-3-Chloropropane	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Dibromochloromethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2-Dibromoethane (EDB)	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Dibromomethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2-Dichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,3-Dichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,4-Dichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Dichlorodifluoromethane (Freon 12)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1-Dichloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2-Dichloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1-Dichloroethene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
cis-1,2-Dichloroethene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
trans-1,2-Dichloroethene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2-Dichloropropane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,3-Dichloropropane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
2,2-Dichloropropane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1-Dichloropropene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
cis-1,3-Dichloropropene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
trans-1,3-Dichloropropene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Ethylbenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Hexachlorobutadiene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
2-Hexanone (MBK)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Isopropylbenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
4-Isopropyltoluene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Methyl tert-butyl ether	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
4-Methyl-2-pentanone (MIBK)	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Methylene Chloride	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Naphthalene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
N-Propylbenzene	64		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Styrene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1,1,2-Tetrachloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1,2,2-Tetrachloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Tetrachloroethene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Toluene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2,3-Trichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2,4-Trichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,3,5-Trichlorobenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1,1-Trichloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,1,2-Trichloroethane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Trichloroethene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Trichlorofluoromethane (Freon 11)	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2,3-Trichloropropane	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,2,4-Trimethylbenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
1,3,5-Trimethylbenzene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Vinyl chloride	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
m,p-Xylene	ND	+	55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
o-Xylene	ND		55	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1
Tetrahydrofuran	ND		110	ug/Kg	☆	03/21/24 09:00	03/21/24 16:19	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Date Collected: 03/13/24 09:02

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-17

Matrix: Solid

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Tert-amyl methyl ether	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Ethyl tert-butyl ether	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
di-Isopropyl ether	ND		55	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
tert-Butanol	ND		1100	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
1,4-Dioxane	ND		1100	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
trans-1,4-Dichloro-2-butene	ND		270	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1
Ethanol	ND		11000	ug/Kg	✱	03/21/24 09:00	03/21/24 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 16:19	1
Toluene-d8 (Surr)	102		70 - 130	03/21/24 09:00	03/21/24 16:19	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	03/21/24 09:00	03/21/24 16:19	1
Dibromofluoromethane (Surr)	98		70 - 130	03/21/24 09:00	03/21/24 16:19	1

Client Sample ID: 4R Day 30, 2x

Date Collected: 03/13/24 09:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-18

Matrix: Solid

Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Acetone	ND		30	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Acrylonitrile	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Benzene	44		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Bromobenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Bromochloromethane	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Bromodichloromethane	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Bromoform	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Bromomethane	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
2-Butanone (MEK)	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
n-Butylbenzene	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
sec-Butylbenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
tert-Butylbenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Carbon disulfide	25		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Carbon tetrachloride	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Chlorobenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Chloroethane	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Chloroform	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Chloromethane	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
2-Chlorotoluene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
4-Chlorotoluene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
1,2-Dibromo-3-Chloropropane	ND		6.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Dibromochloromethane	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
1,2-Dibromoethane (EDB)	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
Dibromomethane	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
1,2-Dichlorobenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
1,3-Dichlorobenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1
1,4-Dichlorobenzene	ND		3.0	ug/Kg	✱	03/19/24 12:54	03/19/24 18:19	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 2x

Lab Sample ID: 620-17406-18

Date Collected: 03/13/24 09:12

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 98.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND	*	6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1-Dichloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2-Dichloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1-Dichloroethene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
cis-1,2-Dichloroethene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
trans-1,2-Dichloroethene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2-Dichloropropane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,3-Dichloropropane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
2,2-Dichloropropane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1-Dichloropropene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
cis-1,3-Dichloropropene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
trans-1,3-Dichloropropene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Ethylbenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Hexachlorobutadiene	ND		6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
2-Hexanone (MBK)	ND		6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Isopropylbenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
4-Isopropyltoluene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Methyl tert-butyl ether	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Methylene Chloride	ND		6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Naphthalene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
N-Propylbenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Styrene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1,1,2-Tetrachloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1,2,2-Tetrachloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Tetrachloroethene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Toluene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2,3-Trichlorobenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2,4-Trichlorobenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,3,5-Trichlorobenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1,1-Trichloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,1,2-Trichloroethane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Trichloroethene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Trichlorofluoromethane (Freon 11)	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2,3-Trichloropropane	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,2,4-Trimethylbenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,3,5-Trimethylbenzene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Vinyl chloride	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
m,p-Xylene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
o-Xylene	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Tetrahydrofuran	ND		6.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Ethyl ether	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Tert-amyl methyl ether	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Ethyl tert-butyl ether	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
di-Isopropyl ether	ND		3.0	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
tert-Butanol	ND		60	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
1,4-Dioxane	ND		60	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
trans-1,4-Dichloro-2-butene	ND		15	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1
Ethanol	ND		600	ug/Kg	☆	03/19/24 12:54	03/19/24 18:19	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 2x

Date Collected: 03/13/24 09:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-18

Matrix: Solid

Percent Solids: 98.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 18:19	1
Toluene-d8 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 18:19	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 18:19	1
Dibromofluoromethane (Surr)	102		70 - 130	03/19/24 12:54	03/19/24 18:19	1

Client Sample ID: 4R Day 30, 3x

Date Collected: 03/13/24 09:22

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-19

Matrix: Solid

Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Acetone	91		53	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Acrylonitrile	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Benzene	59		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Bromobenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Bromochloromethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Bromodichloromethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Bromoform	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Bromomethane	ND		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
2-Butanone (MEK)	14		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
n-Butylbenzene	ND		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
sec-Butylbenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
tert-Butylbenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Carbon disulfide	36		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Carbon tetrachloride	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Chlorobenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Chloroethane	ND		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Chloroform	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Chloromethane	25		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
2-Chlorotoluene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
4-Chlorotoluene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,2-Dibromo-3-Chloropropane	ND		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Dibromochloromethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,2-Dibromoethane (EDB)	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Dibromomethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,2-Dichlorobenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,3-Dichlorobenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,4-Dichlorobenzene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
Dichlorodifluoromethane (Freon 12)	ND *-		11	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,1-Dichloroethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,2-Dichloroethane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,1-Dichloroethene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
cis-1,2-Dichloroethene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
trans-1,2-Dichloroethene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,2-Dichloropropane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,3-Dichloropropane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
2,2-Dichloropropane	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
1,1-Dichloropropene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1
cis-1,3-Dichloropropene	ND		5.3	ug/Kg	☼	03/19/24 12:54	03/19/24 18:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 3x

Lab Sample ID: 620-17406-19

Date Collected: 03/13/24 09:22

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Ethylbenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Hexachlorobutadiene	ND		11	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
2-Hexanone (MBK)	ND		11	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Isopropylbenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
4-Isopropyltoluene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Methyl tert-butyl ether	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		11	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Methylene Chloride	ND		11	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Naphthalene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
N-Propylbenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Styrene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,1,1,2-Tetrachloroethane	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,1,2,2-Tetrachloroethane	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Tetrachloroethene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Toluene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,2,3-Trichlorobenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,2,4-Trichlorobenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,3,5-Trichlorobenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,1,1-Trichloroethane	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,1,2-Trichloroethane	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Trichloroethene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Trichlorofluoromethane (Freon 11)	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,2,3-Trichloropropane	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,2,4-Trimethylbenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,3,5-Trimethylbenzene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Vinyl chloride	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
m,p-Xylene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
o-Xylene	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Tetrahydrofuran	ND		11	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Ethyl ether	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Tert-amyl methyl ether	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Ethyl tert-butyl ether	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
di-Isopropyl ether	ND		5.3	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
tert-Butanol	ND		110	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
1,4-Dioxane	ND		110	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
trans-1,4-Dichloro-2-butene	ND		27	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Ethanol	ND		1100	ug/Kg	✱	03/19/24 12:54	03/19/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/19/24 12:54	03/19/24 18:44	1
Toluene-d8 (Surr)	104		70 - 130			03/19/24 12:54	03/19/24 18:44	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130			03/19/24 12:54	03/19/24 18:44	1
Dibromofluoromethane (Surr)	105		70 - 130			03/19/24 12:54	03/19/24 18:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, ctrl

Lab Sample ID: 620-17406-20

Date Collected: 03/13/24 09:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Acetone	ND		42	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Acrylonitrile	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Benzene	20		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Bromobenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Bromochloromethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Bromodichloromethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Bromoform	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Bromomethane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
2-Butanone (MEK)	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
n-Butylbenzene	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
sec-Butylbenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
tert-Butylbenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Carbon disulfide	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Carbon tetrachloride	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Chlorobenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Chloroethane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Chloroform	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Chloromethane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
2-Chlorotoluene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
4-Chlorotoluene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,2-Dibromo-3-Chloropropane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Dibromochloromethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,2-Dibromoethane (EDB)	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Dibromomethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,2-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,3-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,4-Dichlorobenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Dichlorodifluoromethane (Freon 12)	ND	-	8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,1-Dichloroethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,2-Dichloroethane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,1-Dichloroethene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,3-Dichloropropane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
2,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
1,1-Dichloropropene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Ethylbenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Hexachlorobutadiene	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
2-Hexanone (MBK)	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Isopropylbenzene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
4-Isopropyltoluene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Methyl tert-butyl ether	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Methylene Chloride	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1
Naphthalene	ND		4.2	ug/Kg	☆	03/19/24 12:54	03/19/24 19:10	1

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, ctrl

Lab Sample ID: 620-17406-20

Date Collected: 03/13/24 09:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 97.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Styrene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Tetrachloroethene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Toluene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,3,5-Trichlorobenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,1,1-Trichloroethane	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,1,2-Trichloroethane	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Trichloroethene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Trichlorofluoromethane (Freon 11)	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,2,3-Trichloropropane	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Vinyl chloride	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
m,p-Xylene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
o-Xylene	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Tetrahydrofuran	ND		8.3	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Ethyl ether	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Tert-amyl methyl ether	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Ethyl tert-butyl ether	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
di-Isopropyl ether	ND		4.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
tert-Butanol	ND		83	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
1,4-Dioxane	ND		83	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1
Ethanol	ND		830	ug/Kg	✱	03/19/24 12:54	03/19/24 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 19:10	1
Toluene-d8 (Surr)	102		70 - 130	03/19/24 12:54	03/19/24 19:10	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	03/19/24 12:54	03/19/24 19:10	1
Dibromofluoromethane (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 19:10	1

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Date Collected: 03/13/24 08:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Acetone	ND		32	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Acrylonitrile	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Benzene	280	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Bromobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Bromochloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Bromodichloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Bromoform	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Date Collected: 03/13/24 08:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
2-Butanone (MEK)	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
n-Butylbenzene	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
sec-Butylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
tert-Butylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Carbon disulfide	44		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Carbon tetrachloride	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Chlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Chloroethane	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Chloroform	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Chloromethane	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
2-Chlorotoluene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
4-Chlorotoluene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2-Dibromo-3-Chloropropane	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Dibromochloromethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2-Dibromoethane (EDB)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Dibromomethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,3-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,4-Dichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Dichlorodifluoromethane (Freon 12)	ND	*	6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1-Dichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2-Dichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1-Dichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
cis-1,2-Dichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
trans-1,2-Dichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2-Dichloropropane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,3-Dichloropropane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
2,2-Dichloropropane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1-Dichloropropene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
cis-1,3-Dichloropropene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
trans-1,3-Dichloropropene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Ethylbenzene	120		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Hexachlorobutadiene	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
2-Hexanone (MBK)	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Isopropylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
4-Isopropyltoluene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Methyl tert-butyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Methylene Chloride	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Naphthalene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
N-Propylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Styrene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1,1,2-Tetrachloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1,2,2-Tetrachloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Tetrachloroethene	9.3		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Toluene	320	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2,3-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2,4-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Date Collected: 03/13/24 08:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1,1-Trichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,1,2-Trichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Trichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Trichlorofluoromethane (Freon 11)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2,3-Trichloropropane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,2,4-Trimethylbenzene	3.7		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,3,5-Trimethylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Vinyl chloride	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
m,p-Xylene	300	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
o-Xylene	220	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Tetrahydrofuran	ND		6.5	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Ethyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Tert-amyl methyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Ethyl tert-butyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
di-Isopropyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
tert-Butanol	ND		65	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
1,4-Dioxane	ND		65	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
trans-1,4-Dichloro-2-butene	ND		16	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1
Ethanol	ND		650	ug/Kg	✱	03/19/24 12:54	03/19/24 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 19:36	1
Toluene-d8 (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 19:36	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 19:36	1
Dibromofluoromethane (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 19:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Acetone	ND		440	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Acrylonitrile	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Benzene	1100		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Bromobenzene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Bromochloromethane	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Bromodichloromethane	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Bromoform	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Bromomethane	ND		88	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
2-Butanone (MEK)	ND		88	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
n-Butylbenzene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
sec-Butylbenzene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
tert-Butylbenzene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Carbon disulfide	100		88	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Carbon tetrachloride	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Chlorobenzene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Chloroethane	ND		88	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Chloroform	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Chloromethane	ND		88	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
2-Chlorotoluene	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Date Collected: 03/13/24 08:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2-Dibromo-3-Chloropropane	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Dibromochloromethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2-Dibromoethane (EDB)	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Dibromomethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2-Dichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,3-Dichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,4-Dichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Dichlorodifluoromethane (Freon 12)	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1-Dichloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2-Dichloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1-Dichloroethene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
cis-1,2-Dichloroethene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
trans-1,2-Dichloroethene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2-Dichloropropane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,3-Dichloropropane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
2,2-Dichloropropane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1-Dichloropropene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
cis-1,3-Dichloropropene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
trans-1,3-Dichloropropene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Ethylbenzene	990		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Hexachlorobutadiene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
2-Hexanone (MBK)	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Isopropylbenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
4-Isopropyltoluene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Methyl tert-butyl ether	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Methylene Chloride	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Naphthalene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
N-Propylbenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Styrene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1,1,2-Tetrachloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1,2,2-Tetrachloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Tetrachloroethene	60		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Toluene	1700		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2,3-Trichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2,4-Trichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,3,5-Trichlorobenzene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1,1-Trichloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,1,2-Trichloroethane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Trichloroethene	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Trichlorofluoromethane (Freon 11)	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2,3-Trichloropropane	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,2,4-Trimethylbenzene	79		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
1,3,5-Trimethylbenzene	50		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Vinyl chloride	ND		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
m,p-Xylene	3200	+	44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
o-Xylene	1900		44	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1
Tetrahydrofuran	ND		88	ug/Kg	☆	03/21/24 09:00	03/21/24 16:44	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 0.5x

Lab Sample ID: 620-17406-21

Date Collected: 03/13/24 08:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Tert-amyl methyl ether	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Ethyl tert-butyl ether	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
di-Isopropyl ether	ND		44	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
tert-Butanol	ND		880	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
1,4-Dioxane	ND		880	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
trans-1,4-Dichloro-2-butene	ND		220	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1
Ethanol	ND		8800	ug/Kg	✱	03/21/24 09:00	03/21/24 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/24 09:00	03/21/24 16:44	1
Toluene-d8 (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 16:44	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	03/21/24 09:00	03/21/24 16:44	1
Dibromofluoromethane (Surr)	97		70 - 130	03/21/24 09:00	03/21/24 16:44	1

Client Sample ID: EA6/1R Day 30b, 1x

Lab Sample ID: 620-17406-22

Date Collected: 03/13/24 08:14

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Acetone	ND		36	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Acrylonitrile	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Benzene	210	E	3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Bromobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Bromochloromethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Bromodichloromethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Bromoform	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Bromomethane	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
2-Butanone (MEK)	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
n-Butylbenzene	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
sec-Butylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
tert-Butylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Carbon disulfide	43		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Carbon tetrachloride	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Chlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Chloroethane	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Chloroform	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Chloromethane	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
2-Chlorotoluene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
4-Chlorotoluene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2-Dibromo-3-Chloropropane	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Dibromochloromethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2-Dibromoethane (EDB)	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Dibromomethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2-Dichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,3-Dichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,4-Dichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 1x

Lab Sample ID: 620-17406-22

Date Collected: 03/13/24 08:14

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND	*	7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1-Dichloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2-Dichloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1-Dichloroethene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2-Dichloropropane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,3-Dichloropropane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
2,2-Dichloropropane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1-Dichloropropene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Ethylbenzene	110		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Hexachlorobutadiene	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
2-Hexanone (MBK)	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Isopropylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
4-Isopropyltoluene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Methyl tert-butyl ether	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
4-Methyl-2-pentanone (MIBK)	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Methylene Chloride	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Naphthalene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
N-Propylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Styrene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Tetrachloroethene	11		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Toluene	240 E		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,3,5-Trichlorobenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1,1-Trichloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,1,2-Trichloroethane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Trichloroethene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Trichlorofluoromethane (Freon 11)	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2,3-Trichloropropane	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Vinyl chloride	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
m,p-Xylene	250 E		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
o-Xylene	180 E		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Tetrahydrofuran	ND		7.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Ethyl ether	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Tert-amyl methyl ether	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Ethyl tert-butyl ether	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
di-Isopropyl ether	ND		3.6	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
tert-Butanol	ND		72	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
1,4-Dioxane	ND		72	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1
Ethanol	ND		720	ug/Kg	✱	03/19/24 12:54	03/19/24 20:02	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 1x

Lab Sample ID: 620-17406-22

Date Collected: 03/13/24 08:14

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/19/24 12:54	03/19/24 20:02	1
Toluene-d8 (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 20:02	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 20:02	1
Dibromofluoromethane (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 20:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*	42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Acetone	ND		420	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Acrylonitrile	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Benzene	440		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Bromobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Bromochloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Bromodichloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Bromoform	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Bromomethane	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
2-Butanone (MEK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
n-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
sec-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
tert-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Carbon disulfide	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Carbon tetrachloride	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Chlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Chloroethane	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Chloroform	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Chloromethane	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
2-Chlorotoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
4-Chlorotoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2-Dibromo-3-Chloropropane	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Dibromochloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2-Dibromoethane (EDB)	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Dibromomethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,3-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,4-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Dichlorodifluoromethane (Freon 12)	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1-Dichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2-Dichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
cis-1,2-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
trans-1,2-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,3-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
2,2-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1-Dichloropropene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
cis-1,3-Dichloropropene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
trans-1,3-Dichloropropene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Ethylbenzene	550		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Hexachlorobutadiene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 1x

Lab Sample ID: 620-17406-22

Date Collected: 03/13/24 08:14

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Isopropylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
4-Isopropyltoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Methyl tert-butyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Methylene Chloride	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Naphthalene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
N-Propylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Styrene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1,1,2-Tetrachloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1,2,2-Tetrachloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Tetrachloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Toluene	710		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2,3-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2,4-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,3,5-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1,1-Trichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,1,2-Trichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Trichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Trichlorofluoromethane (Freon 11)	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2,3-Trichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,2,4-Trimethylbenzene	75		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,3,5-Trimethylbenzene	46		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Vinyl chloride	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
m,p-Xylene	1600 *		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
o-Xylene	1000		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Tetrahydrofuran	ND		83	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Ethyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Tert-amyl methyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Ethyl tert-butyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
di-Isopropyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
tert-Butanol	ND		830	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
1,4-Dioxane	ND		830	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
trans-1,4-Dichloro-2-butene	ND		210	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Ethanol	ND		8300	ug/Kg	☆	03/21/24 09:00	03/21/24 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/21/24 09:00	03/21/24 17:55	1
Toluene-d8 (Surr)	100		70 - 130			03/21/24 09:00	03/21/24 17:55	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130			03/21/24 09:00	03/21/24 17:55	1
Dibromofluoromethane (Surr)	96		70 - 130			03/21/24 09:00	03/21/24 17:55	1

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Date Collected: 03/13/24 08:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Date Collected: 03/13/24 08:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		32	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Acrylonitrile	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Benzene	170	E	3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Bromobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Bromochloromethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Bromodichloromethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Bromoform	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Bromomethane	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
2-Butanone (MEK)	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
n-Butylbenzene	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
sec-Butylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
tert-Butylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Carbon disulfide	18		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Carbon tetrachloride	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Chlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Chloroethane	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Chloroform	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Chloromethane	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
2-Chlorotoluene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
4-Chlorotoluene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,2-Dibromo-3-Chloropropane	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Dibromochloromethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,2-Dibromoethane (EDB)	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Dibromomethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,2-Dichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,3-Dichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,4-Dichlorobenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Dichlorodifluoromethane (Freon 12)	ND	*-	6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,1-Dichloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,2-Dichloroethane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,1-Dichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
cis-1,2-Dichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
trans-1,2-Dichloroethene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,2-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,3-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
2,2-Dichloropropane	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
1,1-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
cis-1,3-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
trans-1,3-Dichloropropene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Ethylbenzene	75		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Hexachlorobutadiene	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
2-Hexanone (MBK)	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Isopropylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
4-Isopropyltoluene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Methyl tert-butyl ether	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
4-Methyl-2-pentanone (MIBK)	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Methylene Chloride	ND		6.4	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
Naphthalene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1
N-Propylbenzene	ND		3.2	ug/Kg	☆	03/19/24 12:54	03/19/24 20:27	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Date Collected: 03/13/24 08:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,1,1,2-Tetrachloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,1,2,2-Tetrachloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Tetrachloroethene	8.4		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Toluene	180	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,2,3-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,2,4-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,3,5-Trichlorobenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,1,1-Trichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,1,2-Trichloroethane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Trichloroethene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Trichlorofluoromethane (Freon 11)	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,2,3-Trichloropropane	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,2,4-Trimethylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,3,5-Trimethylbenzene	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Vinyl chloride	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
m,p-Xylene	150	E	3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
o-Xylene	120		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Tetrahydrofuran	ND		6.4	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Ethyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Tert-amyl methyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Ethyl tert-butyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
di-Isopropyl ether	ND		3.2	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
tert-Butanol	ND		64	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
1,4-Dioxane	ND		64	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
trans-1,4-Dichloro-2-butene	ND		16	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1
Ethanol	ND		640	ug/Kg	✱	03/19/24 12:54	03/19/24 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/19/24 12:54	03/19/24 20:27	1
Toluene-d8 (Surr)	105		70 - 130	03/19/24 12:54	03/19/24 20:27	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/19/24 12:54	03/19/24 20:27	1
Dibromofluoromethane (Surr)	106		70 - 130	03/19/24 12:54	03/19/24 20:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Acetone	ND		390	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Acrylonitrile	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Benzene	600		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Bromobenzene	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Bromochloromethane	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Bromodichloromethane	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Bromoform	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
Bromomethane	ND		77	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
2-Butanone (MEK)	ND		77	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
n-Butylbenzene	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
sec-Butylbenzene	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1
tert-Butylbenzene	ND		39	ug/Kg	✱	03/21/24 09:00	03/21/24 18:21	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Date Collected: 03/13/24 08:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Carbon tetrachloride	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Chlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Chloroethane	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Chloroform	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Chloromethane	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
2-Chlorotoluene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
4-Chlorotoluene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2-Dibromo-3-Chloropropane	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Dibromochloromethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2-Dibromoethane (EDB)	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Dibromomethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2-Dichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,3-Dichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,4-Dichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Dichlorodifluoromethane (Freon 12)	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1-Dichloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2-Dichloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1-Dichloroethene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
cis-1,2-Dichloroethene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
trans-1,2-Dichloroethene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2-Dichloropropane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,3-Dichloropropane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
2,2-Dichloropropane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1-Dichloropropene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
cis-1,3-Dichloropropene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
trans-1,3-Dichloropropene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Ethylbenzene	580		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Hexachlorobutadiene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
2-Hexanone (MBK)	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Isopropylbenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
4-Isopropyltoluene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Methyl tert-butyl ether	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
4-Methyl-2-pentanone (MIBK)	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Methylene Chloride	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Naphthalene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
N-Propylbenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Styrene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1,1,2-Tetrachloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1,2,2-Tetrachloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Tetrachloroethene	53		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Toluene	940		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2,3-Trichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2,4-Trichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,3,5-Trichlorobenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1,1-Trichloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,1,2-Trichloroethane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Trichloroethene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Trichlorofluoromethane (Freon 11)	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 2x

Lab Sample ID: 620-17406-23

Date Collected: 03/13/24 08:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,2,4-Trimethylbenzene	51		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,3,5-Trimethylbenzene	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Vinyl chloride	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
m,p-Xylene	1600	++	39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
o-Xylene	1100		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Tetrahydrofuran	ND		77	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Ethyl ether	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Tert-amyl methyl ether	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Ethyl tert-butyl ether	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
di-Isopropyl ether	ND		39	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
tert-Butanol	ND		770	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
1,4-Dioxane	ND		770	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
trans-1,4-Dichloro-2-butene	ND		190	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1
Ethanol	ND		7700	ug/Kg	☆	03/21/24 09:00	03/21/24 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/21/24 09:00	03/21/24 18:21	1
Toluene-d8 (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 18:21	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130	03/21/24 09:00	03/21/24 18:21	1
Dibromofluoromethane (Surr)	101		70 - 130	03/21/24 09:00	03/21/24 18:21	1

Client Sample ID: EA6/1R Day 30b, 3x

Lab Sample ID: 620-17406-24

Date Collected: 03/13/24 08:34

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Acetone	110		41	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Acrylonitrile	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Benzene	150		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Bromobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Bromochloromethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Bromodichloromethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Bromoform	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Bromomethane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
2-Butanone (MEK)	20		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
n-Butylbenzene	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
sec-Butylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
tert-Butylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Carbon disulfide	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Carbon tetrachloride	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Chlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Chloroethane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Chloroform	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Chloromethane	16		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
2-Chlorotoluene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
4-Chlorotoluene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 3x

Lab Sample ID: 620-17406-24

Date Collected: 03/13/24 08:34

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Dibromochloromethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2-Dibromoethane (EDB)	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Dibromomethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,3-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,4-Dichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Dichlorodifluoromethane (Freon 12)	ND	*	8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1-Dichloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2-Dichloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1-Dichloroethene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,3-Dichloropropane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
2,2-Dichloropropane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1-Dichloropropene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Ethylbenzene	72		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Hexachlorobutadiene	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
2-Hexanone (MBK)	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Isopropylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
4-Isopropyltoluene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Methyl tert-butyl ether	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Methylene Chloride	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Naphthalene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
N-Propylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Styrene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Tetrachloroethene	8.7		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Toluene	160		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,3,5-Trichlorobenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1,1-Trichloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,1,2-Trichloroethane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Trichloroethene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Trichlorofluoromethane (Freon 11)	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2,3-Trichloropropane	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Vinyl chloride	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
m,p-Xylene	140		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
o-Xylene	110		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Tetrahydrofuran	ND		8.3	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1
Ethyl ether	ND		4.1	ug/Kg	☆	03/19/24 12:54	03/19/24 20:52	1

Eurolins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 3x

Lab Sample ID: 620-17406-24

Date Collected: 03/13/24 08:34

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		4.1	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
Ethyl tert-butyl ether	ND		4.1	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
di-Isopropyl ether	ND		4.1	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
tert-Butanol	ND		83	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
1,4-Dioxane	ND		83	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1
Ethanol	ND		830	ug/Kg	✱	03/19/24 12:54	03/19/24 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 20:52	1
Toluene-d8 (Surr)	104		70 - 130	03/19/24 12:54	03/19/24 20:52	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 130	03/19/24 12:54	03/19/24 20:52	1
Dibromofluoromethane (Surr)	107		70 - 130	03/19/24 12:54	03/19/24 20:52	1

Client Sample ID: EA6/1R Day 30b, ctrl

Lab Sample ID: 620-17406-25

Date Collected: 03/13/24 08:44

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Acetone	ND		37	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Acrylonitrile	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Benzene	340	E	3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Bromobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Bromochloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Bromodichloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Bromoform	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Bromomethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
2-Butanone (MEK)	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
n-Butylbenzene	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
sec-Butylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
tert-Butylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Carbon disulfide	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Carbon tetrachloride	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Chlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Chloroethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Chloroform	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Chloromethane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
2-Chlorotoluene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
4-Chlorotoluene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2-Dibromo-3-Chloropropane	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Dibromochloromethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2-Dibromoethane (EDB)	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Dibromomethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2-Dichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,3-Dichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,4-Dichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Dichlorodifluoromethane (Freon 12)	ND	-	7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, ctrl

Lab Sample ID: 620-17406-25

Date Collected: 03/13/24 08:44

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 93.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2-Dichloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1-Dichloroethene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2-Dichloropropane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,3-Dichloropropane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
2,2-Dichloropropane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1-Dichloropropene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Ethylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Hexachlorobutadiene	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
2-Hexanone (MBK)	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Isopropylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
4-Isopropyltoluene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Methyl tert-butyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
4-Methyl-2-pentanone (MIBK)	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Methylene Chloride	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Naphthalene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
N-Propylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Styrene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Tetrachloroethene	9.1		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Toluene	270 E		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,3,5-Trichlorobenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1,1-Trichloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,1,2-Trichloroethane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Trichloroethene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Trichlorofluoromethane (Freon 11)	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2,3-Trichloropropane	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Vinyl chloride	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
m,p-Xylene	190 E		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
o-Xylene	220 E		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Tetrahydrofuran	ND		7.4	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Ethyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Tert-amyl methyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Ethyl tert-butyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
di-Isopropyl ether	ND		3.7	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
tert-Butanol	ND		74	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
1,4-Dioxane	ND		74	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1
Ethanol	ND		740	ug/Kg	✱	03/19/24 12:54	03/19/24 21:18	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, ctrl

Lab Sample ID: 620-17406-25

Date Collected: 03/13/24 08:44

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/19/24 12:54	03/19/24 21:18	1
Toluene-d8 (Surr)	103		70 - 130	03/19/24 12:54	03/19/24 21:18	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	03/19/24 12:54	03/19/24 21:18	1
Dibromofluoromethane (Surr)	102		70 - 130	03/19/24 12:54	03/19/24 21:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Acetone	ND		620	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Acrylonitrile	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Benzene	2000		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Bromobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Bromochloromethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Bromodichloromethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Bromoform	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Bromomethane	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
2-Butanone (MEK)	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
n-Butylbenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
sec-Butylbenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
tert-Butylbenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Carbon disulfide	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Carbon tetrachloride	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Chlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Chloroethane	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Chloroform	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Chloromethane	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
2-Chlorotoluene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
4-Chlorotoluene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2-Dibromo-3-Chloropropane	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Dibromochloromethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2-Dibromoethane (EDB)	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Dibromomethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2-Dichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,3-Dichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,4-Dichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Dichlorodifluoromethane (Freon 12)	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1-Dichloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2-Dichloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1-Dichloroethene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
cis-1,2-Dichloroethene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
trans-1,2-Dichloroethene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2-Dichloropropane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,3-Dichloropropane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
2,2-Dichloropropane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1-Dichloropropene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
cis-1,3-Dichloropropene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
trans-1,3-Dichloropropene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Ethylbenzene	340		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Hexachlorobutadiene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, ctrl

Lab Sample ID: 620-17406-25

Date Collected: 03/13/24 08:44

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 93.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone (MBK)	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Isopropylbenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
4-Isopropyltoluene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Methyl tert-butyl ether	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Methylene Chloride	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Naphthalene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
N-Propylbenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Styrene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1,1,2-Tetrachloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1,2,2-Tetrachloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Tetrachloroethene	82		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Toluene	2900		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2,3-Trichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2,4-Trichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,3,5-Trichlorobenzene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1,1-Trichloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,1,2-Trichloroethane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Trichloroethene	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Trichlorofluoromethane (Freon 11)	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2,3-Trichloropropane	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,2,4-Trimethylbenzene	100		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,3,5-Trimethylbenzene	69		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Vinyl chloride	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
m,p-Xylene	4300 *		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
o-Xylene	3100		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Tetrahydrofuran	ND		120	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Ethyl ether	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Tert-amyl methyl ether	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Ethyl tert-butyl ether	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
di-Isopropyl ether	ND		62	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
tert-Butanol	ND		1200	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
1,4-Dioxane	ND		1200	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
trans-1,4-Dichloro-2-butene	ND		310	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Ethanol	ND		12000	ug/Kg	☆	03/21/24 09:00	03/21/24 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/21/24 09:00	03/21/24 18:47	1
Toluene-d8 (Surr)	101		70 - 130			03/21/24 09:00	03/21/24 18:47	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130			03/21/24 09:00	03/21/24 18:47	1
Dibromofluoromethane (Surr)	100		70 - 130			03/21/24 09:00	03/21/24 18:47	1

Client Sample ID: 4R Day 30b, 0.5x

Lab Sample ID: 620-17406-26

Date Collected: 03/13/24 08:54

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 0.5x

Lab Sample ID: 620-17406-26

Date Collected: 03/13/24 08:54

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		380	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Acrylonitrile	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Benzene	850		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Bromobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Bromochloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Bromodichloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Bromoform	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Bromomethane	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
2-Butanone (MEK)	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
n-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
sec-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
tert-Butylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Carbon disulfide	190		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Carbon tetrachloride	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Chlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Chloroethane	ND	*	76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Chloroform	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Chloromethane	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
2-Chlorotoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
4-Chlorotoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2-Dibromo-3-Chloropropane	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Dibromochloromethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2-Dibromoethane (EDB)	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Dibromomethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,3-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,4-Dichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Dichlorodifluoromethane (Freon 12)	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1-Dichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2-Dichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
cis-1,2-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
trans-1,2-Dichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,3-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
2,2-Dichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1-Dichloropropene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
cis-1,3-Dichloropropene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
trans-1,3-Dichloropropene	ND	+	38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Ethylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Hexachlorobutadiene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
2-Hexanone (MBK)	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Isopropylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
4-Isopropyltoluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Methyl tert-butyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Methylene Chloride	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Naphthalene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
N-Propylbenzene	41		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 0.5x

Lab Sample ID: 620-17406-26

Date Collected: 03/13/24 08:54

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 95.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1,1,2-Tetrachloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1,2,2-Tetrachloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Tetrachloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Toluene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2,3-Trichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2,4-Trichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,3,5-Trichlorobenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1,1-Trichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,1,2-Trichloroethane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Trichloroethene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Trichlorofluoromethane (Freon 11)	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2,3-Trichloropropane	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,2,4-Trimethylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,3,5-Trimethylbenzene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Vinyl chloride	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
m,p-Xylene	ND	+	38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
o-Xylene	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Tetrahydrofuran	ND		76	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Ethyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Tert-amyl methyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Ethyl tert-butyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
di-Isopropyl ether	ND		38	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
tert-Butanol	ND		760	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
1,4-Dioxane	ND		760	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
trans-1,4-Dichloro-2-butene	ND		190	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1
Ethanol	ND		7600	ug/Kg	☆	03/21/24 09:00	03/22/24 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/21/24 09:00	03/22/24 12:53	1
Toluene-d8 (Surr)	102		70 - 130	03/21/24 09:00	03/22/24 12:53	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	03/21/24 09:00	03/22/24 12:53	1
Dibromofluoromethane (Surr)	100		70 - 130	03/21/24 09:00	03/22/24 12:53	1

Client Sample ID: 4R Day 30b, 1x

Lab Sample ID: 620-17406-27

Date Collected: 03/13/24 09:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Acetone	44		43	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Acrylonitrile	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Benzene	270	E	4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Bromobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Bromochloromethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Bromodichloromethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Bromoform	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Bromomethane	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 1x

Lab Sample ID: 620-17406-27

Date Collected: 03/13/24 09:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
n-Butylbenzene	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
sec-Butylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
tert-Butylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Carbon disulfide	120		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Carbon tetrachloride	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Chlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Chloroethane	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Chloroform	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Chloromethane	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
2-Chlorotoluene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
4-Chlorotoluene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2-Dibromo-3-Chloropropane	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Dibromochloromethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2-Dibromoethane (EDB)	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Dibromomethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2-Dichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,3-Dichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,4-Dichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Dichlorodifluoromethane (Freon 12)	ND	*	8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1-Dichloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2-Dichloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1-Dichloroethene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2-Dichloropropane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,3-Dichloropropane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
2,2-Dichloropropane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1-Dichloropropene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Ethylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Hexachlorobutadiene	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
2-Hexanone (MBK)	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Isopropylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
4-Isopropyltoluene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Methyl tert-butyl ether	11		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
4-Methyl-2-pentanone (MIBK)	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Methylene Chloride	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Naphthalene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
N-Propylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Styrene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Tetrachloroethene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Toluene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,3,5-Trichlorobenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 1x

Lab Sample ID: 620-17406-27

Date Collected: 03/13/24 09:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,1,2-Trichloroethane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Trichloroethene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Trichlorofluoromethane (Freon 11)	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2,3-Trichloropropane	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Vinyl chloride	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
m,p-Xylene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
o-Xylene	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Tetrahydrofuran	ND		8.5	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Ethyl ether	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Tert-amyl methyl ether	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Ethyl tert-butyl ether	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
di-Isopropyl ether	ND		4.3	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
tert-Butanol	ND		85	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
1,4-Dioxane	ND		85	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1
Ethanol	ND		850	ug/Kg	☆	03/20/24 09:39	03/20/24 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 13:58	1
Toluene-d8 (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 13:58	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/20/24 09:39	03/20/24 13:58	1
Dibromofluoromethane (Surr)	106		70 - 130	03/20/24 09:39	03/20/24 13:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Acetone	ND		420	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Acrylonitrile	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Benzene	930		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Bromobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Bromochloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Bromodichloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Bromoform	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Bromomethane	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
2-Butanone (MEK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
n-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
sec-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
tert-Butylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Carbon disulfide	360		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Carbon tetrachloride	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Chlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Chloroethane	ND	*-	83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Chloroform	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Chloromethane	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
2-Chlorotoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
4-Chlorotoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 1x

Lab Sample ID: 620-17406-27

Date Collected: 03/13/24 09:04

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Dibromochloromethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2-Dibromoethane (EDB)	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Dibromomethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,3-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,4-Dichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Dichlorodifluoromethane (Freon 12)	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1-Dichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2-Dichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
cis-1,2-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
trans-1,2-Dichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,3-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
2,2-Dichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1-Dichloropropene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
cis-1,3-Dichloropropene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
trans-1,3-Dichloropropene	ND	+	42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Ethylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Hexachlorobutadiene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
2-Hexanone (MBK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Isopropylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
4-Isopropyltoluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Methyl tert-butyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Methylene Chloride	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Naphthalene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
N-Propylbenzene	54		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Styrene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1,1,2-Tetrachloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1,1,2,2-Tetrachloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Tetrachloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Toluene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2,3-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2,4-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,3,5-Trichlorobenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1,1-Trichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,1,2-Trichloroethane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Trichloroethene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Trichlorofluoromethane (Freon 11)	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2,3-Trichloropropane	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,2,4-Trimethylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
1,3,5-Trimethylbenzene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Vinyl chloride	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
m,p-Xylene	ND	+	42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
o-Xylene	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Tetrahydrofuran	ND		83	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1
Ethyl ether	ND		42	ug/Kg	☆	03/21/24 09:00	03/22/24 13:18	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 1x

Date Collected: 03/13/24 09:04

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-27

Matrix: Solid

Percent Solids: 86.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		42	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
Ethyl tert-butyl ether	ND		42	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
di-Isopropyl ether	ND		42	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
tert-Butanol	ND		830	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
1,4-Dioxane	ND		830	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
trans-1,4-Dichloro-2-butene	ND		210	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1
Ethanol	ND		8300	ug/Kg	✱	03/21/24 09:00	03/22/24 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/24 09:00	03/22/24 13:18	1
Toluene-d8 (Surr)	102		70 - 130	03/21/24 09:00	03/22/24 13:18	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	03/21/24 09:00	03/22/24 13:18	1
Dibromofluoromethane (Surr)	98		70 - 130	03/21/24 09:00	03/22/24 13:18	1

Client Sample ID: 4R Day 30b, 2x

Date Collected: 03/13/24 09:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-28

Matrix: Solid

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Acetone	ND		42	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Acrylonitrile	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Benzene	100		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Bromobenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Bromochloromethane	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Bromodichloromethane	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Bromoform	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Bromomethane	ND		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
2-Butanone (MEK)	ND		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
n-Butylbenzene	ND		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
sec-Butylbenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
tert-Butylbenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Carbon disulfide	64		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Carbon tetrachloride	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Chlorobenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Chloroethane	ND		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Chloroform	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Chloromethane	9.4		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
2-Chlorotoluene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
4-Chlorotoluene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
1,2-Dibromo-3-Chloropropane	ND		8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Dibromochloromethane	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
1,2-Dibromoethane (EDB)	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Dibromomethane	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
1,2-Dichlorobenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
1,3-Dichlorobenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
1,4-Dichlorobenzene	ND		4.2	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1
Dichlorodifluoromethane (Freon 12)	ND	-	8.4	ug/Kg	✱	03/20/24 09:39	03/20/24 14:23	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 2x

Lab Sample ID: 620-17406-28

Date Collected: 03/13/24 09:14

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2-Dichloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1-Dichloroethene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,3-Dichloropropane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
2,2-Dichloropropane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1-Dichloropropene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Ethylbenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Hexachlorobutadiene	ND		8.4	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
2-Hexanone (MBK)	ND		8.4	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Isopropylbenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
4-Isopropyltoluene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Methyl tert-butyl ether	4.3		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
4-Methyl-2-pentanone (MIBK)	ND		8.4	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Methylene Chloride	ND		8.4	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Naphthalene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
N-Propylbenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Styrene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Tetrachloroethene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Toluene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,3,5-Trichlorobenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1,1-Trichloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,1,2-Trichloroethane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Trichloroethene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Trichlorofluoromethane (Freon 11)	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2,3-Trichloropropane	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Vinyl chloride	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
m,p-Xylene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
o-Xylene	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Tetrahydrofuran	ND		8.4	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Ethyl ether	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Tert-amyl methyl ether	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Ethyl tert-butyl ether	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
di-Isopropyl ether	ND		4.2	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
tert-Butanol	ND		84	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
1,4-Dioxane	ND		84	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
trans-1,4-Dichloro-2-butene	ND		21	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1
Ethanol	ND		840	ug/Kg	☆	03/20/24 09:39	03/20/24 14:23	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 2x

Date Collected: 03/13/24 09:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-28

Matrix: Solid

Percent Solids: 94.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/20/24 09:39	03/20/24 14:23	1
Toluene-d8 (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 14:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	03/20/24 09:39	03/20/24 14:23	1
Dibromofluoromethane (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 14:23	1

Client Sample ID: 4R Day 30b, 3x

Date Collected: 03/13/24 09:24

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-29

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Acetone	ND		350	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Acrylonitrile	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Benzene	210		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Bromobenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Bromochloromethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Bromodichloromethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Bromoform	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Bromomethane	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
2-Butanone (MEK)	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
n-Butylbenzene	39		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
sec-Butylbenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
tert-Butylbenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Carbon disulfide	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Carbon tetrachloride	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Chlorobenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Chloroethane	ND	*-	71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Chloroform	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Chloromethane	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
2-Chlorotoluene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
4-Chlorotoluene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,2-Dibromo-3-Chloropropane	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Dibromochloromethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,2-Dibromoethane (EDB)	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Dibromomethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,2-Dichlorobenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,3-Dichlorobenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,4-Dichlorobenzene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
Dichlorodifluoromethane (Freon 12)	ND		71	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,1-Dichloroethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,2-Dichloroethane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,1-Dichloroethene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
cis-1,2-Dichloroethene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
trans-1,2-Dichloroethene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,2-Dichloropropane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,3-Dichloropropane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
2,2-Dichloropropane	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
1,1-Dichloropropene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1
cis-1,3-Dichloropropene	ND		35	ug/Kg	☼	03/22/24 09:00	03/22/24 14:13	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 3x

Lab Sample ID: 620-17406-29

Date Collected: 03/13/24 09:24

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 87.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND	++	35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Ethylbenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Hexachlorobutadiene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
2-Hexanone (MBK)	81		71	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Isopropylbenzene	46		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
4-Isopropyltoluene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Methyl tert-butyl ether	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		71	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Methylene Chloride	ND		71	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Naphthalene	48		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
N-Propylbenzene	150		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Styrene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,1,1,2-Tetrachloroethane	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,1,2,2-Tetrachloroethane	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Tetrachloroethene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Toluene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,2,3-Trichlorobenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,2,4-Trichlorobenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,3,5-Trichlorobenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,1,1-Trichloroethane	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,1,2-Trichloroethane	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Trichloroethene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Trichlorofluoromethane (Freon 11)	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,2,3-Trichloropropane	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,2,4-Trimethylbenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,3,5-Trimethylbenzene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Vinyl chloride	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
m,p-Xylene	ND	++	35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
o-Xylene	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Tetrahydrofuran	110		71	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Ethyl ether	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Tert-amyl methyl ether	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Ethyl tert-butyl ether	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
di-Isopropyl ether	ND		35	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
tert-Butanol	ND		710	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
1,4-Dioxane	ND		710	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
trans-1,4-Dichloro-2-butene	ND		180	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1
Ethanol	ND		7100	ug/Kg	☆	03/22/24 09:00	03/22/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/22/24 09:00	03/22/24 14:13	1
Toluene-d8 (Surr)	103		70 - 130	03/22/24 09:00	03/22/24 14:13	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	03/22/24 09:00	03/22/24 14:13	1
Dibromofluoromethane (Surr)	97		70 - 130	03/22/24 09:00	03/22/24 14:13	1

Eurofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, ctrl

Lab Sample ID: 620-17406-30

Date Collected: 03/13/24 09:34

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Acetone	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Acrylonitrile	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Benzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Bromobenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Bromochloromethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Bromodichloromethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Bromoform	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Bromomethane	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
2-Butanone (MEK)	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
n-Butylbenzene	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
sec-Butylbenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
tert-Butylbenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Carbon disulfide	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Carbon tetrachloride	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Chlorobenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Chloroethane	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Chloroform	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Chloromethane	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
2-Chlorotoluene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
4-Chlorotoluene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,2-Dibromo-3-Chloropropane	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Dibromochloromethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,2-Dibromoethane (EDB)	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Dibromomethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,2-Dichlorobenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,3-Dichlorobenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,4-Dichlorobenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Dichlorodifluoromethane (Freon 12)	ND	-	8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,1-Dichloroethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,2-Dichloroethane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,1-Dichloroethene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
cis-1,2-Dichloroethene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
trans-1,2-Dichloroethene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,2-Dichloropropane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,3-Dichloropropane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
2,2-Dichloropropane	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
1,1-Dichloropropene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
cis-1,3-Dichloropropene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
trans-1,3-Dichloropropene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Ethylbenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Hexachlorobutadiene	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
2-Hexanone (MBK)	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Isopropylbenzene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
4-Isopropyltoluene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Methyl tert-butyl ether	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
4-Methyl-2-pentanone (MIBK)	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Methylene Chloride	ND		8.9	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1
Naphthalene	ND		4.5	ug/Kg	☆	03/20/24 09:39	03/20/24 15:13	1

Euofins New England

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, ctrl

Lab Sample ID: 620-17406-30

Date Collected: 03/13/24 09:34

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 92.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Styrene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,1,1,2-Tetrachloroethane	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,1,2,2-Tetrachloroethane	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Tetrachloroethene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Toluene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,2,3-Trichlorobenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,2,4-Trichlorobenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,3,5-Trichlorobenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,1,1-Trichloroethane	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,1,2-Trichloroethane	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Trichloroethene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Trichlorofluoromethane (Freon 11)	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,2,3-Trichloropropane	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,2,4-Trimethylbenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,3,5-Trimethylbenzene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Vinyl chloride	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
m,p-Xylene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
o-Xylene	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Tetrahydrofuran	ND		8.9	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Ethyl ether	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Tert-amyl methyl ether	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Ethyl tert-butyl ether	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
di-Isopropyl ether	ND		4.5	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
tert-Butanol	ND		89	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
1,4-Dioxane	ND		89	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
trans-1,4-Dichloro-2-butene	ND		22	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1
Ethanol	ND		890	ug/Kg	✱	03/20/24 09:39	03/20/24 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/20/24 09:39	03/20/24 15:13	1
Toluene-d8 (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 15:13	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	03/20/24 09:39	03/20/24 15:13	1
Dibromofluoromethane (Surr)	105		70 - 130	03/20/24 09:39	03/20/24 15:13	1

Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Matrix: Solid

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)
620-17406-11	EA6/1R Day 30, 0.5x	101	107	104	106
620-17406-11 - ME	EA6/1R Day 30, 0.5x	101	101	108	98
620-17406-12	EA6/1R Day 30, 1x	102	106	103	105
620-17406-12 - ME	EA6/1R Day 30, 1x	101	102	108	98
620-17406-13	EA6/1R Day 30, 2x	100	106	103	105
620-17406-13 - ME	EA6/1R Day 30, 2x	100	102	109	100
620-17406-14	EA6/1R Day 30, 3x	103	104	105	104
620-17406-14 - ME	EA6/1R Day 30, 3x	102	101	108	99
620-17406-15	EA6/1R Day 30, ctrl	99	104	100	103
620-17406-15 - ME	EA6/1R Day 30, ctrl	100	100	105	98
620-17406-15 - DL	EA6/1R Day 30, ctrl	103	99	106	98
620-17406-16	4R Day 30, 0.5x	106	104	99	103
620-17406-16 - ME	4R Day 30, 0.5x	101	102	108	99
620-17406-17	4R Day 30, 1x	106	105	100	104
620-17406-17 - ME	4R Day 30, 1x	101	102	107	98
620-17406-18	4R Day 30, 2x	106	104	103	102
620-17406-19	4R Day 30, 3x	107	104	109	105
620-17406-20	4R Day 30, ctrl	104	102	98	101
620-17406-21	EA6/1R Day 30b, 0.5x	101	106	101	104
620-17406-21 - ME	EA6/1R Day 30b, 0.5x	100	101	107	97
620-17406-22	EA6/1R Day 30b, 1x	100	106	101	105
620-17406-22 - ME	EA6/1R Day 30b, 1x	100	100	103	96
620-17406-23	EA6/1R Day 30b, 2x	102	105	101	106
620-17406-23 - ME	EA6/1R Day 30b, 2x	102	101	109	101
620-17406-24	EA6/1R Day 30b, 3x	104	104	117	107
620-17406-25	EA6/1R Day 30b, ctrl	99	103	96	102
620-17406-25 - ME	EA6/1R Day 30b, ctrl	102	101	109	100
620-17406-26 - ME	4R Day 30b, 0.5x	102	102	108	100
620-17406-27	4R Day 30b, 1x	105	105	102	106
620-17406-27 - ME	4R Day 30b, 1x	101	102	108	98
620-17406-28	4R Day 30b, 2x	106	105	102	105
620-17406-29 - ME	4R Day 30b, 3x	100	103	104	97
620-17406-30	4R Day 30b, ctrl	103	105	101	105
LCS 620-32868/1-A	Lab Control Sample	106	104	101	104
LCS 620-32902/1-A	Lab Control Sample	105	104	99	104
LCS 620-32972/1-A	Lab Control Sample	104	102	109	103
LCS 620-33016/1-A	Lab Control Sample	105	102	106	102
LCSD 620-32868/2-A	Lab Control Sample Dup	105	104	101	103
LCSD 620-32902/2-A	Lab Control Sample Dup	106	105	99	104
LCSD 620-32972/2-A	Lab Control Sample Dup	103	103	109	103
LCSD 620-33016/2-A	Lab Control Sample Dup	104	102	105	101
MB 620-32868/3-A	Method Blank	103	102	103	102
MB 620-32902/3-A	Method Blank	102	102	100	101
MB 620-32972/3-A	Method Blank	99	101	109	103
MB 620-33016/3-A	Method Blank	100	100	107	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

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Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH
DBFM = Dibromofluoromethane (Surr)

Job ID: 620-17406-1

Method: 8260C - 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)
620-17406-1	EA6/1R Day 30, 0.5x	105	99	110	99
620-17406-1 - DL	EA6/1R Day 30, 0.5x	104	99	109	98
620-17406-2	EA6/1R Day 30, 1x	108	102	112	101
620-17406-2 - DL	EA6/1R Day 30, 1x	103	99	109	98
620-17406-3	EA6/1R Day 30, 2x	102	99	111	102
620-17406-4	EA6/1R Day 30, 3x	107	101	115	102
620-17406-4 - DL	EA6/1R Day 30, 3x	102	100	110	101
620-17406-5	EA6/1R Day 30, ctrl	105	98	112	95
620-17406-5 - DL2	EA6/1R Day 30, ctrl	100	100	108	98
620-17406-5 - DL	EA6/1R Day 30, ctrl	104	97	107	96
620-17406-6	4R Day 30, 0.5x	100	100	115	102
620-17406-7	4R Day 30, 1x	100	99	109	98
620-17406-8	4R Day 30, 2x	101	100	113	102
620-17406-9	4R Day 30, 3x	102	101	111	103
620-17406-10	4R Day 30,ctrl	100	101	107	97
LCS 620-32793/4	Lab Control Sample	101	101	105	103
LCS 620-32894/4	Lab Control Sample	104	101	104	102
LCS 620-32936/4	Lab Control Sample	103	102	106	100
LCSD 620-32793/5	Lab Control Sample Dup	101	101	101	102
LCSD 620-32894/5	Lab Control Sample Dup	103	101	101	101
LCSD 620-32936/5	Lab Control Sample Dup	103	102	105	102
MB 620-32793/7	Method Blank	95	100	102	101
MB 620-32894/7	Method Blank	99	99	103	96
MB 620-32936/7	Method Blank	99	100	108	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32793/7

Matrix: Water

Analysis Batch: 32793

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/18/24 12:30	1
Acetone	ND		10	ug/L			03/18/24 12:30	1
Acrylonitrile	ND		0.50	ug/L			03/18/24 12:30	1
Benzene	ND		1.0	ug/L			03/18/24 12:30	1
Bromobenzene	ND		1.0	ug/L			03/18/24 12:30	1
Bromochloromethane	ND		1.0	ug/L			03/18/24 12:30	1
Bromodichloromethane	ND		0.50	ug/L			03/18/24 12:30	1
Bromoform	ND		1.0	ug/L			03/18/24 12:30	1
Bromomethane	ND		2.0	ug/L			03/18/24 12:30	1
2-Butanone (MEK)	ND		2.0	ug/L			03/18/24 12:30	1
n-Butylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
sec-Butylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
tert-Butylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
Carbon disulfide	ND		2.0	ug/L			03/18/24 12:30	1
Carbon tetrachloride	ND		1.0	ug/L			03/18/24 12:30	1
Chlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
Chloroethane	ND		2.0	ug/L			03/18/24 12:30	1
Chloroform	ND		1.0	ug/L			03/18/24 12:30	1
Chloromethane	ND		2.0	ug/L			03/18/24 12:30	1
2-Chlorotoluene	ND		1.0	ug/L			03/18/24 12:30	1
4-Chlorotoluene	ND		1.0	ug/L			03/18/24 12:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/18/24 12:30	1
Dibromochloromethane	ND		0.50	ug/L			03/18/24 12:30	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/18/24 12:30	1
Dibromomethane	ND		1.0	ug/L			03/18/24 12:30	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/18/24 12:30	1
1,1-Dichloroethane	ND		1.0	ug/L			03/18/24 12:30	1
1,2-Dichloroethane	ND		1.0	ug/L			03/18/24 12:30	1
1,1-Dichloroethene	ND		1.0	ug/L			03/18/24 12:30	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 12:30	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/18/24 12:30	1
1,2-Dichloropropane	ND		1.0	ug/L			03/18/24 12:30	1
1,3-Dichloropropane	ND		1.0	ug/L			03/18/24 12:30	1
2,2-Dichloropropane	ND		1.0	ug/L			03/18/24 12:30	1
1,1-Dichloropropene	ND		1.0	ug/L			03/18/24 12:30	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 12:30	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/18/24 12:30	1
Ethylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
Hexachlorobutadiene	ND		1.0	ug/L			03/18/24 12:30	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/18/24 12:30	1
Isopropylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
4-Isopropyltoluene	ND		1.0	ug/L			03/18/24 12:30	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/18/24 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/18/24 12:30	1
Methylene Chloride	ND		2.0	ug/L			03/18/24 12:30	1

Euofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32793/7

Matrix: Water

Analysis Batch: 32793

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0	ug/L			03/18/24 12:30	1
N-Propylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
Styrene	ND		1.0	ug/L			03/18/24 12:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/18/24 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/18/24 12:30	1
Tetrachloroethene	ND		1.0	ug/L			03/18/24 12:30	1
Toluene	ND		1.0	ug/L			03/18/24 12:30	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/18/24 12:30	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/18/24 12:30	1
Trichloroethene	ND		1.0	ug/L			03/18/24 12:30	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/18/24 12:30	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/18/24 12:30	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/18/24 12:30	1
Vinyl chloride	ND		1.0	ug/L			03/18/24 12:30	1
m,p-Xylene	ND		1.0	ug/L			03/18/24 12:30	1
o-Xylene	ND		1.0	ug/L			03/18/24 12:30	1
Tetrahydrofuran	ND		2.0	ug/L			03/18/24 12:30	1
Ethyl ether	ND		1.0	ug/L			03/18/24 12:30	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/18/24 12:30	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/18/24 12:30	1
di-Isopropyl ether	ND		1.0	ug/L			03/18/24 12:30	1
tert-Butanol	ND		10	ug/L			03/18/24 12:30	1
1,4-Dioxane	ND		50	ug/L			03/18/24 12:30	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/18/24 12:30	1
Ethanol	ND		200	ug/L			03/18/24 12:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		03/18/24 12:30	1
Toluene-d8 (Surr)	100		70 - 130		03/18/24 12:30	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		03/18/24 12:30	1
Dibromofluoromethane (Surr)	101		70 - 130		03/18/24 12:30	1

Lab Sample ID: LCS 620-32793/4

Matrix: Water

Analysis Batch: 32793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.6	*-	ug/L		83	85 - 124
Acetone	20.0	13.6		ug/L		68	14 - 133
Acrylonitrile	20.0	22.1		ug/L		110	62 - 134
Benzene	20.0	20.3		ug/L		101	86 - 111
Bromobenzene	20.0	18.3		ug/L		91	82 - 120
Bromochloromethane	20.0	19.9		ug/L		99	83 - 123
Bromodichloromethane	20.0	19.6		ug/L		98	83 - 137

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32793/4

Matrix: Water

Analysis Batch: 32793

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	20.3		ug/L		101	91 - 137
Bromomethane	20.0	18.9		ug/L		94	29 - 148
2-Butanone (MEK)	20.0	13.5		ug/L		67	10 - 200
n-Butylbenzene	20.0	21.2		ug/L		106	85 - 138
sec-Butylbenzene	20.0	18.7		ug/L		93	75 - 118
tert-Butylbenzene	20.0	20.0		ug/L		100	85 - 122
Carbon disulfide	20.0	16.7		ug/L		84	69 - 150
Carbon tetrachloride	20.0	18.2		ug/L		91	84 - 123
Chlorobenzene	20.0	18.6		ug/L		93	93 - 115
Chloroethane	20.0	14.8		ug/L		74	56 - 155
Chloroform	20.0	20.6		ug/L		103	84 - 116
Chloromethane	20.0	16.5		ug/L		83	45 - 138
2-Chlorotoluene	20.0	20.8		ug/L		104	88 - 116
4-Chlorotoluene	20.0	21.8		ug/L		109	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	70 - 139
Dibromochloromethane	20.0	19.3		ug/L		97	83 - 132
1,2-Dibromoethane (EDB)	20.0	20.6		ug/L		103	82 - 125
Dibromomethane	20.0	19.9		ug/L		100	80 - 125
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	84 - 128
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	85 - 120
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	12.9		ug/L		65	36 - 131
1,1-Dichloroethane	20.0	20.2		ug/L		101	81 - 120
1,2-Dichloroethane	20.0	18.5		ug/L		92	82 - 116
1,1-Dichloroethene	20.0	19.2		ug/L		96	83 - 120
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	81 - 124
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	81 - 127
1,2-Dichloropropane	20.0	20.7		ug/L		103	76 - 132
1,3-Dichloropropane	20.0	19.7		ug/L		98	74 - 122
2,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 130
1,1-Dichloropropene	20.0	18.5		ug/L		92	81 - 115
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	74 - 129
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	78 - 126
Ethylbenzene	20.0	20.1		ug/L		100	89 - 117
Hexachlorobutadiene	20.0	17.9		ug/L		89	77 - 118
2-Hexanone (MBK)	20.0	14.9		ug/L		75	37 - 123
Isopropylbenzene	20.0	19.2		ug/L		96	83 - 117
4-Isopropyltoluene	20.0	18.7		ug/L		93	83 - 124
Methyl tert-butyl ether	20.0	20.5		ug/L		103	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/L		95	59 - 118
Methylene Chloride	20.0	19.8		ug/L		99	75 - 121
Naphthalene	20.0	20.4		ug/L		102	67 - 123
N-Propylbenzene	20.0	21.2		ug/L		106	84 - 128
Styrene	20.0	19.6		ug/L		98	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.0	*	ug/L		90	91 - 118
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	77 - 129
Tetrachloroethene	20.0	18.9		ug/L		94	85 - 116
Toluene	20.0	19.3		ug/L		96	88 - 109

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32793/4

Matrix: Water

Analysis Batch: 32793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	19.4		ug/L		97	67 - 134
1,2,4-Trichlorobenzene	20.0	19.4		ug/L		97	78 - 133
1,3,5-Trichlorobenzene	20.0	19.9		ug/L		100	77 - 127
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	83 - 124
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	84 - 132
Trichloroethene	20.0	19.2		ug/L		96	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	18.2		ug/L		91	82 - 126
1,2,3-Trichloropropane	20.0	19.3		ug/L		96	77 - 124
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	89 - 126
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	89 - 125
Vinyl chloride	20.0	18.1		ug/L		91	62 - 130
m,p-Xylene	40.0	46.5		ug/L		116	85 - 123
o-Xylene	20.0	20.1		ug/L		101	85 - 119
Tetrahydrofuran	20.0	18.3		ug/L		91	60 - 133
Ethyl ether	20.0	17.8		ug/L		89	69 - 122
Tert-amyl methyl ether	20.0	20.0		ug/L		100	50 - 140
Ethyl tert-butyl ether	20.0	18.3		ug/L		91	60 - 131
di-Isopropyl ether	20.0	18.2		ug/L		91	67 - 125
tert-Butanol	200	214		ug/L		107	50 - 169
1,4-Dioxane	200	194		ug/L		97	28 - 150
trans-1,4-Dichloro-2-butene	20.0	23.8		ug/L		119	48 - 153
Ethanol	400	412		ug/L		103	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: LCSD 620-32793/5

Matrix: Water

Analysis Batch: 32793

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.4	*-	ug/L		82	85 - 124	1	20
Acetone	20.0	12.0		ug/L		60	14 - 133	13	20
Acrylonitrile	20.0	22.7		ug/L		113	62 - 134	3	20
Benzene	20.0	20.2		ug/L		101	86 - 111	0	20
Bromobenzene	20.0	18.5		ug/L		93	82 - 120	1	20
Bromochloromethane	20.0	19.3		ug/L		96	83 - 123	3	20
Bromodichloromethane	20.0	19.2		ug/L		96	83 - 137	2	20
Bromoform	20.0	20.0		ug/L		100	91 - 137	2	20
Bromomethane	20.0	17.8		ug/L		89	29 - 148	6	20
2-Butanone (MEK)	20.0	13.3		ug/L		67	10 - 200	1	20
n-Butylbenzene	20.0	21.9		ug/L		110	85 - 138	3	20
sec-Butylbenzene	20.0	19.0		ug/L		95	75 - 118	2	20
tert-Butylbenzene	20.0	20.1		ug/L		101	85 - 122	0	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32793/5

Matrix: Water

Analysis Batch: 32793

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 Limit
Carbon disulfide	20.0	16.3		ug/L		81	69 - 150	3	20
Carbon tetrachloride	20.0	18.1		ug/L		91	84 - 123	0	20
Chlorobenzene	20.0	18.6		ug/L		93	93 - 115	0	20
Chloroethane	20.0	14.7		ug/L		73	56 - 155	1	20
Chloroform	20.0	19.8		ug/L		99	84 - 116	4	20
Chloromethane	20.0	15.7		ug/L		79	45 - 138	5	20
2-Chlorotoluene	20.0	21.1		ug/L		106	88 - 116	2	20
4-Chlorotoluene	20.0	21.9		ug/L		109	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	20.1		ug/L		101	70 - 139	5	20
Dibromochloromethane	20.0	19.1		ug/L		96	83 - 132	1	20
1,2-Dibromoethane (EDB)	20.0	20.4		ug/L		102	82 - 125	1	20
Dibromomethane	20.0	19.2		ug/L		96	80 - 125	4	20
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	84 - 128	1	20
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	85 - 120	0	20
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	12.7		ug/L		64	36 - 131	2	20
1,1-Dichloroethane	20.0	20.0		ug/L		100	81 - 120	1	20
1,2-Dichloroethane	20.0	18.1		ug/L		90	82 - 116	2	20
1,1-Dichloroethene	20.0	19.5		ug/L		98	83 - 120	2	20
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	81 - 124	0	20
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	81 - 127	0	20
1,2-Dichloropropane	20.0	20.1		ug/L		100	76 - 132	3	20
1,3-Dichloropropane	20.0	19.5		ug/L		97	74 - 122	1	20
2,2-Dichloropropane	20.0	19.3		ug/L		97	77 - 130	1	20
1,1-Dichloropropene	20.0	18.8		ug/L		94	81 - 115	2	20
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	74 - 129	1	20
trans-1,3-Dichloropropene	20.0	21.9		ug/L		109	78 - 126	0	20
Ethylbenzene	20.0	20.1		ug/L		100	89 - 117	0	20
Hexachlorobutadiene	20.0	18.0		ug/L		90	77 - 118	1	20
2-Hexanone (MBK)	20.0	14.6		ug/L		73	37 - 123	2	20
Isopropylbenzene	20.0	20.0		ug/L		100	83 - 117	4	20
4-Isopropyltoluene	20.0	19.2		ug/L		96	83 - 124	3	20
Methyl tert-butyl ether	20.0	20.9		ug/L		105	70 - 126	2	20
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L		99	59 - 118	4	20
Methylene Chloride	20.0	19.5		ug/L		97	75 - 121	2	20
Naphthalene	20.0	21.5		ug/L		108	67 - 123	6	20
N-Propylbenzene	20.0	21.5		ug/L		108	84 - 128	1	20
Styrene	20.0	19.8		ug/L		99	78 - 127	1	20
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	91 - 118	2	20
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	77 - 129	0	20
Tetrachloroethene	20.0	18.9		ug/L		94	85 - 116	0	20
Toluene	20.0	18.6		ug/L		93	88 - 109	3	20
1,2,3-Trichlorobenzene	20.0	20.2		ug/L		101	67 - 134	4	20
1,2,4-Trichlorobenzene	20.0	19.4		ug/L		97	78 - 133	0	20
1,3,5-Trichlorobenzene	20.0	20.5		ug/L		103	77 - 127	3	20
1,1,1-Trichloroethane	20.0	19.1		ug/L		95	83 - 124	1	20
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	84 - 132	2	20
Trichloroethene	20.0	18.8		ug/L		94	74 - 118	2	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32793/5

Matrix: Water

Analysis Batch: 32793

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 Limit
Trichlorofluoromethane (Freon 11)	20.0	17.8		ug/L		89	82 - 126	2	20
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	77 - 124	1	20
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	89 - 126	1	20
1,3,5-Trimethylbenzene	20.0	19.5		ug/L		98	89 - 125	0	20
Vinyl chloride	20.0	18.0		ug/L		90	62 - 130	1	20
m,p-Xylene	40.0	46.5		ug/L		116	85 - 123	0	20
o-Xylene	20.0	20.7		ug/L		103	85 - 119	3	20
Tetrahydrofuran	20.0	19.3		ug/L		97	60 - 133	6	20
Ethyl ether	20.0	18.6		ug/L		93	69 - 122	4	20
Tert-amyl methyl ether	20.0	20.0		ug/L		100	50 - 140	0	20
Ethyl tert-butyl ether	20.0	18.4		ug/L		92	60 - 131	1	20
di-Isopropyl ether	20.0	18.4		ug/L		92	67 - 125	1	20
tert-Butanol	200	237		ug/L		118	50 - 169	10	20
1,4-Dioxane	200	180		ug/L		90	28 - 150	7	20
trans-1,4-Dichloro-2-butene	20.0	23.2		ug/L		116	48 - 153	3	20
Ethanol	400	388		ug/L		97	47 - 170	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: MB 620-32868/3-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Acetone	ND		50	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Acrylonitrile	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Benzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Bromobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Bromochloromethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Bromodichloromethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Bromoform	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Bromomethane	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
2-Butanone (MEK)	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
n-Butylbenzene	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
sec-Butylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
tert-Butylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Carbon disulfide	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Carbon tetrachloride	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Chlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Chloroethane	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Chloroform	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Chloromethane	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32868/3-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
4-Chlorotoluene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Dibromochloromethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Dibromomethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1-Dichloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2-Dichloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1-Dichloroethene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2-Dichloropropane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,3-Dichloropropane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
2,2-Dichloropropane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1-Dichloropropene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Ethylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Hexachlorobutadiene	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
2-Hexanone (MBK)	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Isopropylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
4-Isopropyltoluene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Methylene Chloride	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Naphthalene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
N-Propylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Styrene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Tetrachloroethene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Toluene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Trichloroethene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Vinyl chloride	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
m,p-Xylene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
o-Xylene	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32868/3-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Ethyl ether	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
di-Isopropyl ether	ND		5.0	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
tert-Butanol	ND		100	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
1,4-Dioxane	ND		100	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		03/19/24 09:00	03/19/24 11:54	1
Ethanol	ND		1000	ug/Kg		03/19/24 09:00	03/19/24 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/19/24 09:00	03/19/24 11:54	1
Toluene-d8 (Surr)	102		70 - 130	03/19/24 09:00	03/19/24 11:54	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	03/19/24 09:00	03/19/24 11:54	1
Dibromofluoromethane (Surr)	102		70 - 130	03/19/24 09:00	03/19/24 11:54	1

Lab Sample ID: LCS 620-32868/1-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.5		ug/Kg		107	70 - 130
Acetone	20.0	20.8	J	ug/Kg		104	70 - 130
Acrylonitrile	20.0	19.7		ug/Kg		98	70 - 130
Benzene	20.0	21.3		ug/Kg		106	70 - 130
Bromobenzene	20.0	18.5		ug/Kg		92	70 - 130
Bromochloromethane	20.0	21.3		ug/Kg		107	70 - 130
Bromodichloromethane	20.0	20.8		ug/Kg		104	70 - 130
Bromoform	20.0	17.8		ug/Kg		89	70 - 130
Bromomethane	20.0	20.3		ug/Kg		102	70 - 130
2-Butanone (MEK)	20.0	21.9		ug/Kg		110	70 - 130
n-Butylbenzene	20.0	17.7		ug/Kg		89	70 - 130
sec-Butylbenzene	20.0	19.7		ug/Kg		99	70 - 130
tert-Butylbenzene	20.0	21.6		ug/Kg		108	70 - 130
Carbon disulfide	20.0	20.5		ug/Kg		103	70 - 130
Carbon tetrachloride	20.0	21.2		ug/Kg		106	70 - 130
Chlorobenzene	20.0	19.0		ug/Kg		95	70 - 130
Chloroethane	20.0	20.4		ug/Kg		102	70 - 130
Chloroform	20.0	20.7		ug/Kg		104	70 - 130
Chloromethane	20.0	19.1		ug/Kg		95	70 - 130
2-Chlorotoluene	20.0	19.1		ug/Kg		96	70 - 130
4-Chlorotoluene	20.0	19.1		ug/Kg		95	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	15.4		ug/Kg		77	70 - 130
Dibromochloromethane	20.0	19.8		ug/Kg		99	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.5		ug/Kg		102	70 - 130
Dibromomethane	20.0	20.5		ug/Kg		102	70 - 130
1,2-Dichlorobenzene	20.0	16.9		ug/Kg		85	70 - 130
1,3-Dichlorobenzene	20.0	18.5		ug/Kg		92	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32868/1-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	20.0	17.1		ug/Kg		85	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	13.5	*-	ug/Kg		68	70 - 130
1,1-Dichloroethane	20.0	21.7		ug/Kg		109	70 - 130
1,2-Dichloroethane	20.0	21.1		ug/Kg		105	70 - 130
1,1-Dichloroethene	20.0	21.0		ug/Kg		105	70 - 130
cis-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	70 - 130
trans-1,2-Dichloroethene	20.0	20.1		ug/Kg		100	70 - 130
1,2-Dichloropropane	20.0	20.7		ug/Kg		103	70 - 130
1,3-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130
2,2-Dichloropropane	20.0	20.7		ug/Kg		104	70 - 130
1,1-Dichloropropene	20.0	20.9		ug/Kg		105	70 - 130
cis-1,3-Dichloropropene	20.0	20.0		ug/Kg		100	70 - 130
trans-1,3-Dichloropropene	20.0	21.2		ug/Kg		106	70 - 130
Ethylbenzene	20.0	19.0		ug/Kg		95	70 - 130
Hexachlorobutadiene	20.0	16.4		ug/Kg		82	70 - 130
2-Hexanone (MBK)	20.0	19.1		ug/Kg		95	70 - 130
Isopropylbenzene	20.0	19.7		ug/Kg		99	70 - 130
4-Isopropyltoluene	20.0	18.0		ug/Kg		90	70 - 130
Methyl tert-butyl ether	20.0	21.3		ug/Kg		107	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.9		ug/Kg		95	70 - 130
Methylene Chloride	20.0	21.4		ug/Kg		107	70 - 130
Naphthalene	20.0	16.4		ug/Kg		82	70 - 130
N-Propylbenzene	20.0	19.4		ug/Kg		97	70 - 130
Styrene	20.0	19.9		ug/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.0		ug/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.5		ug/Kg		88	70 - 130
Tetrachloroethene	20.0	20.0		ug/Kg		100	70 - 130
Toluene	20.0	21.1		ug/Kg		105	70 - 130
1,2,3-Trichlorobenzene	20.0	15.8		ug/Kg		79	70 - 130
1,2,4-Trichlorobenzene	20.0	17.0		ug/Kg		85	70 - 130
1,3,5-Trichlorobenzene	20.0	16.8		ug/Kg		84	70 - 130
1,1,1-Trichloroethane	20.0	20.9		ug/Kg		105	70 - 130
1,1,2-Trichloroethane	20.0	20.8		ug/Kg		104	70 - 130
Trichloroethene	20.0	21.0		ug/Kg		105	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	20.7		ug/Kg		103	70 - 130
1,2,3-Trichloropropane	20.0	18.0		ug/Kg		90	70 - 130
1,2,4-Trimethylbenzene	20.0	19.9		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	20.0	20.0		ug/Kg		100	70 - 130
Vinyl chloride	20.0	18.6		ug/Kg		93	70 - 130
m,p-Xylene	20.0	19.6		ug/Kg		98	70 - 130
o-Xylene	20.0	19.3		ug/Kg		97	70 - 130
Tetrahydrofuran	20.0	19.7		ug/Kg		98	70 - 130
Ethyl ether	20.0	21.4		ug/Kg		107	70 - 130
Tert-amyl methyl ether	20.0	20.5		ug/Kg		103	70 - 130
Ethyl tert-butyl ether	20.0	21.0		ug/Kg		105	70 - 130
di-Isopropyl ether	20.0	21.8		ug/Kg		109	70 - 130
tert-Butanol	200	183		ug/Kg		92	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32868/1-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	200	188		ug/Kg		94	70 - 130
trans-1,4-Dichloro-2-butene	20.0	19.1	J	ug/Kg		95	70 - 130
Ethanol	400	301	J	ug/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: LCSD 620-32868/2-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.0		ug/Kg		90	70 - 130	17	30
Acetone	20.0	19.2	J	ug/Kg		96	70 - 130	8	30
Acrylonitrile	20.0	19.6		ug/Kg		98	70 - 130	0	30
Benzene	20.0	19.3		ug/Kg		97	70 - 130	10	30
Bromobenzene	20.0	16.8		ug/Kg		84	70 - 130	9	30
Bromochloromethane	20.0	19.7		ug/Kg		99	70 - 130	8	30
Bromodichloromethane	20.0	19.0		ug/Kg		95	70 - 130	9	30
Bromoform	20.0	16.3		ug/Kg		81	70 - 130	9	30
Bromomethane	20.0	18.4		ug/Kg		92	70 - 130	10	30
2-Butanone (MEK)	20.0	18.7		ug/Kg		94	70 - 130	16	30
n-Butylbenzene	20.0	15.5		ug/Kg		77	70 - 130	14	30
sec-Butylbenzene	20.0	17.2		ug/Kg		86	70 - 130	14	30
tert-Butylbenzene	20.0	19.2		ug/Kg		96	70 - 130	12	30
Carbon disulfide	20.0	18.3		ug/Kg		92	70 - 130	11	30
Carbon tetrachloride	20.0	18.8		ug/Kg		94	70 - 130	12	30
Chlorobenzene	20.0	17.4		ug/Kg		87	70 - 130	9	30
Chloroethane	20.0	18.2		ug/Kg		91	70 - 130	11	30
Chloroform	20.0	19.3		ug/Kg		96	70 - 130	7	30
Chloromethane	20.0	17.2		ug/Kg		86	70 - 130	10	30
2-Chlorotoluene	20.0	17.4		ug/Kg		87	70 - 130	10	30
4-Chlorotoluene	20.0	17.2		ug/Kg		86	70 - 130	11	30
1,2-Dibromo-3-Chloropropane	20.0	14.7		ug/Kg		73	70 - 130	5	30
Dibromochloromethane	20.0	18.2		ug/Kg		91	70 - 130	8	30
1,2-Dibromoethane (EDB)	20.0	18.8		ug/Kg		94	70 - 130	9	30
Dibromomethane	20.0	18.8		ug/Kg		94	70 - 130	8	30
1,2-Dichlorobenzene	20.0	15.7		ug/Kg		79	70 - 130	7	30
1,3-Dichlorobenzene	20.0	16.6		ug/Kg		83	70 - 130	10	30
1,4-Dichlorobenzene	20.0	15.4		ug/Kg		77	70 - 130	11	30
Dichlorodifluoromethane (Freon 12)	20.0	11.7	*-	ug/Kg		58	70 - 130	15	30
1,1-Dichloroethane	20.0	19.9		ug/Kg		99	70 - 130	9	30
1,2-Dichloroethane	20.0	19.7		ug/Kg		98	70 - 130	7	30
1,1-Dichloroethene	20.0	18.6		ug/Kg		93	70 - 130	12	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32868/2-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	19.0		ug/Kg		95	70 - 130	8	30
trans-1,2-Dichloroethene	20.0	18.7		ug/Kg		94	70 - 130	7	30
1,2-Dichloropropane	20.0	19.4		ug/Kg		97	70 - 130	6	30
1,3-Dichloropropane	20.0	19.0		ug/Kg		95	70 - 130	8	30
2,2-Dichloropropane	20.0	18.9		ug/Kg		95	70 - 130	9	30
1,1-Dichloropropene	20.0	18.9		ug/Kg		95	70 - 130	10	30
cis-1,3-Dichloropropene	20.0	18.3		ug/Kg		92	70 - 130	9	30
trans-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	70 - 130	9	30
Ethylbenzene	20.0	17.2		ug/Kg		86	70 - 130	10	30
Hexachlorobutadiene	20.0	14.1		ug/Kg		70	70 - 130	15	30
2-Hexanone (MBK)	20.0	16.6		ug/Kg		83	70 - 130	14	30
Isopropylbenzene	20.0	17.6		ug/Kg		88	70 - 130	12	30
4-Isopropyltoluene	20.0	16.0		ug/Kg		80	70 - 130	12	30
Methyl tert-butyl ether	20.0	19.5		ug/Kg		98	70 - 130	9	30
4-Methyl-2-pentanone (MIBK)	20.0	16.2		ug/Kg		81	70 - 130	15	30
Methylene Chloride	20.0	20.0		ug/Kg		100	70 - 130	7	30
Naphthalene	20.0	16.1		ug/Kg		81	70 - 130	1	30
N-Propylbenzene	20.0	17.1		ug/Kg		86	70 - 130	13	30
Styrene	20.0	17.7		ug/Kg		89	70 - 130	11	30
1,1,1,2-Tetrachloroethane	20.0	17.4		ug/Kg		87	70 - 130	9	30
1,1,2,2-Tetrachloroethane	20.0	15.9		ug/Kg		79	70 - 130	10	30
Tetrachloroethene	20.0	17.6		ug/Kg		88	70 - 130	12	30
Toluene	20.0	18.9		ug/Kg		95	70 - 130	11	30
1,2,3-Trichlorobenzene	20.0	14.7		ug/Kg		73	70 - 130	8	30
1,2,4-Trichlorobenzene	20.0	15.1		ug/Kg		76	70 - 130	12	30
1,3,5-Trichlorobenzene	20.0	14.8		ug/Kg		74	70 - 130	13	30
1,1,1-Trichloroethane	20.0	19.4		ug/Kg		97	70 - 130	7	30
1,1,2-Trichloroethane	20.0	19.3		ug/Kg		97	70 - 130	7	30
Trichloroethene	20.0	18.8		ug/Kg		94	70 - 130	11	30
Trichlorofluoromethane (Freon 11)	20.0	18.6		ug/Kg		93	70 - 130	11	30
1,2,3-Trichloropropane	20.0	16.5		ug/Kg		82	70 - 130	9	30
1,2,4-Trimethylbenzene	20.0	17.5		ug/Kg		87	70 - 130	13	30
1,3,5-Trimethylbenzene	20.0	17.7		ug/Kg		88	70 - 130	12	30
Vinyl chloride	20.0	16.8		ug/Kg		84	70 - 130	10	30
m,p-Xylene	20.0	17.4		ug/Kg		87	70 - 130	12	30
o-Xylene	20.0	17.7		ug/Kg		88	70 - 130	9	30
Tetrahydrofuran	20.0	17.2		ug/Kg		86	70 - 130	14	30
Ethyl ether	20.0	19.8		ug/Kg		99	70 - 130	8	30
Tert-amyl methyl ether	20.0	19.0		ug/Kg		95	70 - 130	8	30
Ethyl tert-butyl ether	20.0	19.5		ug/Kg		97	70 - 130	7	30
di-Isopropyl ether	20.0	20.1		ug/Kg		101	70 - 130	8	30
tert-Butanol	200	178		ug/Kg		89	70 - 130	3	30
1,4-Dioxane	200	179		ug/Kg		90	70 - 130	5	30
trans-1,4-Dichloro-2-butene	20.0	17.5	J	ug/Kg		87	70 - 130	9	30
Ethanol	400	317	J	ug/Kg		79	70 - 130	5	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32868/2-A

Matrix: Solid

Analysis Batch: 32847

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32868

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: MB 620-32894/7

Matrix: Water

Analysis Batch: 32894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/20/24 12:07	1
Acetone	ND		10	ug/L			03/20/24 12:07	1
Acrylonitrile	ND		0.50	ug/L			03/20/24 12:07	1
Benzene	ND		1.0	ug/L			03/20/24 12:07	1
Bromobenzene	ND		1.0	ug/L			03/20/24 12:07	1
Bromochloromethane	ND		1.0	ug/L			03/20/24 12:07	1
Bromodichloromethane	ND		0.50	ug/L			03/20/24 12:07	1
Bromoform	ND		1.0	ug/L			03/20/24 12:07	1
Bromomethane	ND		2.0	ug/L			03/20/24 12:07	1
2-Butanone (MEK)	ND		2.0	ug/L			03/20/24 12:07	1
n-Butylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
sec-Butylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
tert-Butylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
Carbon disulfide	ND		2.0	ug/L			03/20/24 12:07	1
Carbon tetrachloride	ND		1.0	ug/L			03/20/24 12:07	1
Chlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
Chloroethane	ND		2.0	ug/L			03/20/24 12:07	1
Chloroform	ND		1.0	ug/L			03/20/24 12:07	1
Chloromethane	ND		2.0	ug/L			03/20/24 12:07	1
2-Chlorotoluene	ND		1.0	ug/L			03/20/24 12:07	1
4-Chlorotoluene	ND		1.0	ug/L			03/20/24 12:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/20/24 12:07	1
Dibromochloromethane	ND		0.50	ug/L			03/20/24 12:07	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/20/24 12:07	1
Dibromomethane	ND		1.0	ug/L			03/20/24 12:07	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/20/24 12:07	1
1,1-Dichloroethane	ND		1.0	ug/L			03/20/24 12:07	1
1,2-Dichloroethane	ND		1.0	ug/L			03/20/24 12:07	1
1,1-Dichloroethene	ND		1.0	ug/L			03/20/24 12:07	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/20/24 12:07	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/20/24 12:07	1
1,2-Dichloropropane	ND		1.0	ug/L			03/20/24 12:07	1
1,3-Dichloropropane	ND		1.0	ug/L			03/20/24 12:07	1
2,2-Dichloropropane	ND		1.0	ug/L			03/20/24 12:07	1
1,1-Dichloropropene	ND		1.0	ug/L			03/20/24 12:07	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32894/7

Matrix: Water

Analysis Batch: 32894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/20/24 12:07	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/20/24 12:07	1
Ethylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
Hexachlorobutadiene	ND		1.0	ug/L			03/20/24 12:07	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/20/24 12:07	1
Isopropylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
4-Isopropyltoluene	ND		1.0	ug/L			03/20/24 12:07	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/20/24 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/20/24 12:07	1
Methylene Chloride	ND		2.0	ug/L			03/20/24 12:07	1
Naphthalene	ND		2.0	ug/L			03/20/24 12:07	1
N-Propylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
Styrene	ND		1.0	ug/L			03/20/24 12:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/20/24 12:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/20/24 12:07	1
Tetrachloroethene	ND		1.0	ug/L			03/20/24 12:07	1
Toluene	ND		1.0	ug/L			03/20/24 12:07	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/20/24 12:07	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/20/24 12:07	1
Trichloroethene	ND		1.0	ug/L			03/20/24 12:07	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/20/24 12:07	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/20/24 12:07	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/20/24 12:07	1
Vinyl chloride	ND		1.0	ug/L			03/20/24 12:07	1
m,p-Xylene	ND		1.0	ug/L			03/20/24 12:07	1
o-Xylene	ND		1.0	ug/L			03/20/24 12:07	1
Tetrahydrofuran	ND		2.0	ug/L			03/20/24 12:07	1
Ethyl ether	ND		1.0	ug/L			03/20/24 12:07	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/20/24 12:07	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/20/24 12:07	1
di-Isopropyl ether	ND		1.0	ug/L			03/20/24 12:07	1
tert-Butanol	ND		10	ug/L			03/20/24 12:07	1
1,4-Dioxane	ND		50	ug/L			03/20/24 12:07	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/20/24 12:07	1
Ethanol	ND		200	ug/L			03/20/24 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		03/20/24 12:07	1
Toluene-d8 (Surr)	99		70 - 130		03/20/24 12:07	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		03/20/24 12:07	1
Dibromofluoromethane (Surr)	96		70 - 130		03/20/24 12:07	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32894/4

Matrix: Water

Analysis Batch: 32894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.3	*-	ug/L		82	85 - 124
Acetone	20.0	12.8		ug/L		64	14 - 133
Acrylonitrile	20.0	24.5		ug/L		123	62 - 134
Benzene	20.0	20.8		ug/L		104	86 - 111
Bromobenzene	20.0	18.5		ug/L		93	82 - 120
Bromochloromethane	20.0	19.3		ug/L		96	83 - 123
Bromodichloromethane	20.0	19.5		ug/L		98	83 - 137
Bromoform	20.0	19.8		ug/L		99	91 - 137
Bromomethane	20.0	14.3		ug/L		72	29 - 148
2-Butanone (MEK)	20.0	16.1		ug/L		81	10 - 200
n-Butylbenzene	20.0	21.3		ug/L		107	85 - 138
sec-Butylbenzene	20.0	19.0		ug/L		95	75 - 118
tert-Butylbenzene	20.0	20.9		ug/L		104	85 - 122
Carbon disulfide	20.0	16.0		ug/L		80	69 - 150
Carbon tetrachloride	20.0	18.3		ug/L		91	84 - 123
Chlorobenzene	20.0	18.4	*-	ug/L		92	93 - 115
Chloroethane	20.0	15.1		ug/L		76	56 - 155
Chloroform	20.0	20.3		ug/L		102	84 - 116
Chloromethane	20.0	16.9		ug/L		85	45 - 138
2-Chlorotoluene	20.0	20.9		ug/L		104	88 - 116
4-Chlorotoluene	20.0	21.9		ug/L		110	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		105	70 - 139
Dibromochloromethane	20.0	19.9		ug/L		100	83 - 132
1,2-Dibromoethane (EDB)	20.0	22.0		ug/L		110	82 - 125
Dibromomethane	20.0	19.9		ug/L		100	80 - 125
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	84 - 128
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	85 - 120
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	12.9		ug/L		64	36 - 131
1,1-Dichloroethane	20.0	20.4		ug/L		102	81 - 120
1,2-Dichloroethane	20.0	18.5		ug/L		92	82 - 116
1,1-Dichloroethene	20.0	19.7		ug/L		98	83 - 120
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	81 - 124
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	81 - 127
1,2-Dichloropropane	20.0	21.3		ug/L		107	76 - 132
1,3-Dichloropropane	20.0	21.0		ug/L		105	74 - 122
2,2-Dichloropropane	20.0	20.1		ug/L		101	77 - 130
1,1-Dichloropropene	20.0	19.3		ug/L		96	81 - 115
cis-1,3-Dichloropropene	20.0	20.5		ug/L		102	74 - 129
trans-1,3-Dichloropropene	20.0	23.4		ug/L		117	78 - 126
Ethylbenzene	20.0	20.0		ug/L		100	89 - 117
Hexachlorobutadiene	20.0	18.8		ug/L		94	77 - 118
2-Hexanone (MBK)	20.0	16.6		ug/L		83	37 - 123
Isopropylbenzene	20.0	19.8		ug/L		99	83 - 117
4-Isopropyltoluene	20.0	18.6		ug/L		93	83 - 124
Methyl tert-butyl ether	20.0	23.2		ug/L		116	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	22.6		ug/L		113	59 - 118

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32894/4

Matrix: Water

Analysis Batch: 32894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	19.7		ug/L		98	75 - 121
Naphthalene	20.0	24.6		ug/L		123	67 - 123
N-Propylbenzene	20.0	21.4		ug/L		107	84 - 128
Styrene	20.0	19.9		ug/L		100	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.2		ug/L		91	91 - 118
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	77 - 129
Tetrachloroethene	20.0	19.0		ug/L		95	85 - 116
Toluene	20.0	19.2		ug/L		96	88 - 109
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		112	67 - 134
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	78 - 133
1,3,5-Trichlorobenzene	20.0	21.8		ug/L		109	77 - 127
1,1,1-Trichloroethane	20.0	19.3		ug/L		97	83 - 124
1,1,2-Trichloroethane	20.0	21.2		ug/L		106	84 - 132
Trichloroethene	20.0	18.6		ug/L		93	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	17.4		ug/L		87	82 - 126
1,2,3-Trichloropropane	20.0	19.9		ug/L		100	77 - 124
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	89 - 126
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	89 - 125
Vinyl chloride	20.0	18.9		ug/L		95	62 - 130
m,p-Xylene	40.0	45.5		ug/L		114	85 - 123
o-Xylene	20.0	21.1		ug/L		106	85 - 119
Tetrahydrofuran	20.0	21.9		ug/L		109	60 - 133
Ethyl ether	20.0	19.0		ug/L		95	69 - 122
Tert-amyl methyl ether	20.0	22.4		ug/L		112	50 - 140
Ethyl tert-butyl ether	20.0	20.1		ug/L		100	60 - 131
di-Isopropyl ether	20.0	20.2		ug/L		101	67 - 125
tert-Butanol	200	281		ug/L		140	50 - 169
1,4-Dioxane	200	250		ug/L		125	28 - 150
trans-1,4-Dichloro-2-butene	20.0	22.8		ug/L		114	48 - 153
Ethanol	400	439		ug/L		110	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: LCSD 620-32894/5

Matrix: Water

Analysis Batch: 32894

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	15.4	*-	ug/L		77	85 - 124	6	20
Acetone	20.0	11.7		ug/L		59	14 - 133	9	20
Acrylonitrile	20.0	24.9		ug/L		125	62 - 134	1	20
Benzene	20.0	20.4		ug/L		102	86 - 111	2	20
Bromobenzene	20.0	18.5		ug/L		92	82 - 120	0	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32894/5

Matrix: Water

Analysis Batch: 32894

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 Limit
Bromochloromethane	20.0	19.2		ug/L		96	83 - 123	1	20
Bromodichloromethane	20.0	19.2		ug/L		96	83 - 137	2	20
Bromoform	20.0	19.6		ug/L		98	91 - 137	1	20
Bromomethane	20.0	16.1		ug/L		80	29 - 148	11	20
2-Butanone (MEK)	20.0	16.0		ug/L		80	10 - 200	1	20
n-Butylbenzene	20.0	21.5		ug/L		107	85 - 138	1	20
sec-Butylbenzene	20.0	19.1		ug/L		95	75 - 118	0	20
tert-Butylbenzene	20.0	20.8		ug/L		104	85 - 122	0	20
Carbon disulfide	20.0	15.5		ug/L		78	69 - 150	3	20
Carbon tetrachloride	20.0	17.9		ug/L		89	84 - 123	2	20
Chlorobenzene	20.0	18.2	*-	ug/L		91	93 - 115	1	20
Chloroethane	20.0	13.3		ug/L		67	56 - 155	13	20
Chloroform	20.0	19.7		ug/L		98	84 - 116	3	20
Chloromethane	20.0	16.4		ug/L		82	45 - 138	3	20
2-Chlorotoluene	20.0	21.5		ug/L		107	88 - 116	3	20
4-Chlorotoluene	20.0	22.4		ug/L		112	81 - 128	2	20
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	70 - 139	3	20
Dibromochloromethane	20.0	19.1		ug/L		95	83 - 132	4	20
1,2-Dibromoethane (EDB)	20.0	21.8		ug/L		109	82 - 125	1	20
Dibromomethane	20.0	20.0		ug/L		100	80 - 125	0	20
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	84 - 128	1	20
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	85 - 120	0	20
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	12.1		ug/L		61	36 - 131	6	20
1,1-Dichloroethane	20.0	20.1		ug/L		100	81 - 120	1	20
1,2-Dichloroethane	20.0	18.3		ug/L		91	82 - 116	1	20
1,1-Dichloroethene	20.0	19.2		ug/L		96	83 - 120	2	20
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	81 - 124	1	20
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	81 - 127	0	20
1,2-Dichloropropane	20.0	21.0		ug/L		105	76 - 132	2	20
1,3-Dichloropropane	20.0	20.4		ug/L		102	74 - 122	3	20
2,2-Dichloropropane	20.0	19.7		ug/L		99	77 - 130	2	20
1,1-Dichloropropene	20.0	19.1		ug/L		95	81 - 115	1	20
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	74 - 129	1	20
trans-1,3-Dichloropropene	20.0	22.1		ug/L		111	78 - 126	6	20
Ethylbenzene	20.0	19.8		ug/L		99	89 - 117	1	20
Hexachlorobutadiene	20.0	18.5		ug/L		92	77 - 118	2	20
2-Hexanone (MBK)	20.0	17.0		ug/L		85	37 - 123	2	20
Isopropylbenzene	20.0	19.9		ug/L		99	83 - 117	1	20
4-Isopropyltoluene	20.0	19.1		ug/L		95	83 - 124	3	20
Methyl tert-butyl ether	20.0	22.3		ug/L		111	70 - 126	4	20
4-Methyl-2-pentanone (MIBK)	20.0	22.1		ug/L		110	59 - 118	3	20
Methylene Chloride	20.0	19.4		ug/L		97	75 - 121	1	20
Naphthalene	20.0	24.1		ug/L		121	67 - 123	2	20
N-Propylbenzene	20.0	21.1		ug/L		106	84 - 128	1	20
Styrene	20.0	19.4		ug/L		97	78 - 127	3	20
1,1,1,2-Tetrachloroethane	20.0	17.9	*-	ug/L		90	91 - 118	1	20
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	77 - 129	1	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32894/5

Matrix: Water

Analysis Batch: 32894

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 Limit
Tetrachloroethene	20.0	18.6		ug/L		93	85 - 116	2	20
Toluene	20.0	18.9		ug/L		95	88 - 109	1	20
1,2,3-Trichlorobenzene	20.0	22.2		ug/L		111	67 - 134	1	20
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		108	78 - 133	2	20
1,3,5-Trichlorobenzene	20.0	22.1		ug/L		111	77 - 127	1	20
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	83 - 124	3	20
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	84 - 132	4	20
Trichloroethene	20.0	18.1		ug/L		90	74 - 118	3	20
Trichlorofluoromethane (Freon 11)	20.0	16.3		ug/L		82	82 - 126	6	20
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	77 - 124	1	20
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	89 - 126	2	20
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	89 - 125	0	20
Vinyl chloride	20.0	18.2		ug/L		91	62 - 130	4	20
m,p-Xylene	40.0	45.3		ug/L		113	85 - 123	0	20
o-Xylene	20.0	20.8		ug/L		104	85 - 119	1	20
Tetrahydrofuran	20.0	21.7		ug/L		108	60 - 133	1	20
Ethyl ether	20.0	18.6		ug/L		93	69 - 122	2	20
Tert-amyl methyl ether	20.0	21.8		ug/L		109	50 - 140	3	20
Ethyl tert-butyl ether	20.0	20.0		ug/L		100	60 - 131	0	20
di-Isopropyl ether	20.0	19.4		ug/L		97	67 - 125	4	20
tert-Butanol	200	266		ug/L		133	50 - 169	5	20
1,4-Dioxane	200	251		ug/L		126	28 - 150	0	20
trans-1,4-Dichloro-2-butene	20.0	23.6		ug/L		118	48 - 153	4	20
Ethanol	400	437		ug/L		109	47 - 170	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

Lab Sample ID: MB 620-32902/3-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32902

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Acetone	ND		50	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Acrylonitrile	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Benzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Bromobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Bromochloromethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Bromodichloromethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Bromoform	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Bromomethane	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
2-Butanone (MEK)	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
n-Butylbenzene	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32902/3-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32902

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
tert-Butylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Carbon disulfide	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Carbon tetrachloride	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Chlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Chloroethane	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Chloroform	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Chloromethane	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
2-Chlorotoluene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
4-Chlorotoluene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Dibromochloromethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Dibromomethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1-Dichloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2-Dichloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1-Dichloroethene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2-Dichloropropane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,3-Dichloropropane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
2,2-Dichloropropane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1-Dichloropropene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Ethylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Hexachlorobutadiene	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
2-Hexanone (MBK)	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Isopropylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
4-Isopropyltoluene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Methylene Chloride	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Naphthalene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
N-Propylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Styrene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Tetrachloroethene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Toluene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32902/3-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32902

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Vinyl chloride	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
m,p-Xylene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
o-Xylene	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Tetrahydrofuran	ND		10	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Ethyl ether	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
di-Isopropyl ether	ND		5.0	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
tert-Butanol	ND		100	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
1,4-Dioxane	ND		100	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		03/20/24 09:39	03/20/24 12:18	1
Ethanol	ND		1000	ug/Kg		03/20/24 09:39	03/20/24 12:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/20/24 09:39	03/20/24 12:18	1
Toluene-d8 (Surr)	102		70 - 130	03/20/24 09:39	03/20/24 12:18	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	03/20/24 09:39	03/20/24 12:18	1
Dibromofluoromethane (Surr)	101		70 - 130	03/20/24 09:39	03/20/24 12:18	1

Lab Sample ID: LCS 620-32902/1-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	22.2		ug/Kg		111	70 - 130
Acetone	20.0	22.6	J	ug/Kg		113	70 - 130
Acrylonitrile	20.0	22.9		ug/Kg		115	70 - 130
Benzene	20.0	23.1		ug/Kg		115	70 - 130
Bromobenzene	20.0	19.8		ug/Kg		99	70 - 130
Bromochloromethane	20.0	23.3		ug/Kg		117	70 - 130
Bromodichloromethane	20.0	22.7		ug/Kg		113	70 - 130
Bromoform	20.0	19.4		ug/Kg		97	70 - 130
Bromomethane	20.0	20.1		ug/Kg		101	70 - 130
2-Butanone (MEK)	20.0	22.4		ug/Kg		112	70 - 130
n-Butylbenzene	20.0	18.4		ug/Kg		92	70 - 130
sec-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 130
tert-Butylbenzene	20.0	23.1		ug/Kg		115	70 - 130
Carbon disulfide	20.0	21.5		ug/Kg		107	70 - 130
Carbon tetrachloride	20.0	22.5		ug/Kg		112	70 - 130
Chlorobenzene	20.0	20.0		ug/Kg		100	70 - 130
Chloroethane	20.0	21.0		ug/Kg		105	70 - 130
Chloroform	20.0	22.6		ug/Kg		113	70 - 130
Chloromethane	20.0	19.0		ug/Kg		95	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32902/1-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	20.0		ug/Kg		100	70 - 130
4-Chlorotoluene	20.0	19.9		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/Kg		83	70 - 130
Dibromochloromethane	20.0	21.8		ug/Kg		109	70 - 130
1,2-Dibromoethane (EDB)	20.0	22.7		ug/Kg		113	70 - 130
Dibromomethane	20.0	22.6		ug/Kg		113	70 - 130
1,2-Dichlorobenzene	20.0	17.9		ug/Kg		89	70 - 130
1,3-Dichlorobenzene	20.0	19.3		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	20.0	17.6		ug/Kg		88	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	13.7	*-	ug/Kg		68	70 - 130
1,1-Dichloroethane	20.0	23.2		ug/Kg		116	70 - 130
1,2-Dichloroethane	20.0	22.9		ug/Kg		114	70 - 130
1,1-Dichloroethene	20.0	22.1		ug/Kg		110	70 - 130
cis-1,2-Dichloroethene	20.0	23.0		ug/Kg		115	70 - 130
trans-1,2-Dichloroethene	20.0	22.5		ug/Kg		112	70 - 130
1,2-Dichloropropane	20.0	23.0		ug/Kg		115	70 - 130
1,3-Dichloropropane	20.0	22.7		ug/Kg		114	70 - 130
2,2-Dichloropropane	20.0	22.6		ug/Kg		113	70 - 130
1,1-Dichloropropene	20.0	23.3		ug/Kg		117	70 - 130
cis-1,3-Dichloropropene	20.0	22.9		ug/Kg		115	70 - 130
trans-1,3-Dichloropropene	20.0	23.3		ug/Kg		117	70 - 130
Ethylbenzene	20.0	20.3		ug/Kg		102	70 - 130
Hexachlorobutadiene	20.0	17.1		ug/Kg		85	70 - 130
2-Hexanone (MBK)	20.0	19.7		ug/Kg		99	70 - 130
Isopropylbenzene	20.0	21.2		ug/Kg		106	70 - 130
4-Isopropyltoluene	20.0	19.1		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	24.6		ug/Kg		123	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.6		ug/Kg		103	70 - 130
Methylene Chloride	20.0	23.0		ug/Kg		115	70 - 130
Naphthalene	20.0	16.3		ug/Kg		82	70 - 130
N-Propylbenzene	20.0	20.3		ug/Kg		101	70 - 130
Styrene	20.0	21.1		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.1		ug/Kg		91	70 - 130
Tetrachloroethene	20.0	21.9		ug/Kg		110	70 - 130
Toluene	20.0	22.8		ug/Kg		114	70 - 130
1,2,3-Trichlorobenzene	20.0	15.8		ug/Kg		79	70 - 130
1,2,4-Trichlorobenzene	20.0	17.1		ug/Kg		85	70 - 130
1,3,5-Trichlorobenzene	20.0	17.2		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	20.0	22.7		ug/Kg		114	70 - 130
1,1,2-Trichloroethane	20.0	22.4		ug/Kg		112	70 - 130
Trichloroethene	20.0	22.3		ug/Kg		111	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.1		ug/Kg		106	70 - 130
1,2,3-Trichloropropane	20.0	18.8		ug/Kg		94	70 - 130
1,2,4-Trimethylbenzene	20.0	20.6		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	20.0	20.8		ug/Kg		104	70 - 130
Vinyl chloride	20.0	19.1		ug/Kg		95	70 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32902/1-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylene	20.0	20.9		ug/Kg		105	70 - 130
o-Xylene	20.0	21.0		ug/Kg		105	70 - 130
Tetrahydrofuran	20.0	22.2		ug/Kg		111	70 - 130
Ethyl ether	20.0	23.6		ug/Kg		118	70 - 130
Tert-amyl methyl ether	20.0	23.1		ug/Kg		115	70 - 130
Ethyl tert-butyl ether	20.0	24.0		ug/Kg		120	70 - 130
di-Isopropyl ether	20.0	24.4		ug/Kg		122	70 - 130
tert-Butanol	200	224		ug/Kg		112	70 - 130
1,4-Dioxane	200	221		ug/Kg		111	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.3	J	ug/Kg		101	70 - 130
Ethanol	400	365	J	ug/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: LCSD 620-32902/2-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.1		ug/Kg		105	70 - 130	5	30
Acetone	20.0	22.9	J	ug/Kg		115	70 - 130	1	30
Acrylonitrile	20.0	22.1		ug/Kg		110	70 - 130	4	30
Benzene	20.0	22.4		ug/Kg		112	70 - 130	3	30
Bromobenzene	20.0	19.7		ug/Kg		99	70 - 130	0	30
Bromochloromethane	20.0	23.0		ug/Kg		115	70 - 130	1	30
Bromodichloromethane	20.0	22.1		ug/Kg		110	70 - 130	3	30
Bromoform	20.0	19.1		ug/Kg		96	70 - 130	1	30
Bromomethane	20.0	19.8		ug/Kg		99	70 - 130	2	30
2-Butanone (MEK)	20.0	22.7		ug/Kg		113	70 - 130	1	30
n-Butylbenzene	20.0	17.5		ug/Kg		87	70 - 130	5	30
sec-Butylbenzene	20.0	20.0		ug/Kg		100	70 - 130	2	30
tert-Butylbenzene	20.0	23.0		ug/Kg		115	70 - 130	0	30
Carbon disulfide	20.0	21.1		ug/Kg		106	70 - 130	2	30
Carbon tetrachloride	20.0	21.5		ug/Kg		107	70 - 130	4	30
Chlorobenzene	20.0	19.5		ug/Kg		98	70 - 130	2	30
Chloroethane	20.0	20.5		ug/Kg		103	70 - 130	2	30
Chloroform	20.0	21.8		ug/Kg		109	70 - 130	4	30
Chloromethane	20.0	18.9		ug/Kg		94	70 - 130	1	30
2-Chlorotoluene	20.0	19.8		ug/Kg		99	70 - 130	1	30
4-Chlorotoluene	20.0	19.7		ug/Kg		99	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	20.0	17.1		ug/Kg		85	70 - 130	3	30
Dibromochloromethane	20.0	22.0		ug/Kg		110	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	22.7		ug/Kg		114	70 - 130	0	30
Dibromomethane	20.0	22.3		ug/Kg		111	70 - 130	1	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32902/2-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	20.0	17.9		ug/Kg		90	70 - 130	0	30
1,3-Dichlorobenzene	20.0	19.1		ug/Kg		95	70 - 130	1	30
1,4-Dichlorobenzene	20.0	17.6		ug/Kg		88	70 - 130	0	30
Dichlorodifluoromethane (Freon 12)	20.0	13.3	*-	ug/Kg		66	70 - 130	3	30
1,1-Dichloroethane	20.0	22.6		ug/Kg		113	70 - 130	2	30
1,2-Dichloroethane	20.0	22.6		ug/Kg		113	70 - 130	1	30
1,1-Dichloroethene	20.0	21.7		ug/Kg		108	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	22.0		ug/Kg		110	70 - 130	4	30
trans-1,2-Dichloroethene	20.0	21.9		ug/Kg		109	70 - 130	3	30
1,2-Dichloropropane	20.0	22.2		ug/Kg		111	70 - 130	4	30
1,3-Dichloropropane	20.0	22.8		ug/Kg		114	70 - 130	0	30
2,2-Dichloropropane	20.0	21.7		ug/Kg		108	70 - 130	4	30
1,1-Dichloropropene	20.0	22.3		ug/Kg		111	70 - 130	4	30
cis-1,3-Dichloropropene	20.0	22.7		ug/Kg		114	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	23.1		ug/Kg		116	70 - 130	1	30
Ethylbenzene	20.0	19.6		ug/Kg		98	70 - 130	4	30
Hexachlorobutadiene	20.0	16.9		ug/Kg		85	70 - 130	1	30
2-Hexanone (MBK)	20.0	19.5		ug/Kg		98	70 - 130	1	30
Isopropylbenzene	20.0	20.4		ug/Kg		102	70 - 130	4	30
4-Isopropyltoluene	20.0	18.6		ug/Kg		93	70 - 130	3	30
Methyl tert-butyl ether	20.0	24.0		ug/Kg		120	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	20.0	21.0		ug/Kg		105	70 - 130	2	30
Methylene Chloride	20.0	23.1		ug/Kg		115	70 - 130	0	30
Naphthalene	20.0	16.9		ug/Kg		84	70 - 130	3	30
N-Propylbenzene	20.0	19.5		ug/Kg		97	70 - 130	4	30
Styrene	20.0	20.7		ug/Kg		104	70 - 130	1	30
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/Kg		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/Kg		93	70 - 130	3	30
Tetrachloroethene	20.0	20.9		ug/Kg		104	70 - 130	5	30
Toluene	20.0	22.2		ug/Kg		111	70 - 130	3	30
1,2,3-Trichlorobenzene	20.0	16.0		ug/Kg		80	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	17.2		ug/Kg		86	70 - 130	0	30
1,3,5-Trichlorobenzene	20.0	16.9		ug/Kg		84	70 - 130	2	30
1,1,1-Trichloroethane	20.0	22.2		ug/Kg		111	70 - 130	3	30
1,1,2-Trichloroethane	20.0	22.5		ug/Kg		113	70 - 130	1	30
Trichloroethene	20.0	21.6		ug/Kg		108	70 - 130	3	30
Trichlorofluoromethane (Freon 11)	20.0	20.5		ug/Kg		102	70 - 130	3	30
1,2,3-Trichloropropane	20.0	18.9		ug/Kg		94	70 - 130	0	30
1,2,4-Trimethylbenzene	20.0	20.1		ug/Kg		100	70 - 130	2	30
1,3,5-Trimethylbenzene	20.0	20.3		ug/Kg		101	70 - 130	3	30
Vinyl chloride	20.0	19.1		ug/Kg		95	70 - 130	0	30
m,p-Xylene	20.0	20.0		ug/Kg		100	70 - 130	5	30
o-Xylene	20.0	20.4		ug/Kg		102	70 - 130	3	30
Tetrahydrofuran	20.0	22.7		ug/Kg		113	70 - 130	2	30
Ethyl ether	20.0	22.9		ug/Kg		114	70 - 130	3	30
Tert-amyl methyl ether	20.0	23.8		ug/Kg		119	70 - 130	3	30
Ethyl tert-butyl ether	20.0	23.6		ug/Kg		118	70 - 130	2	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32902/2-A

Matrix: Solid

Analysis Batch: 32903

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
di-Isopropyl ether	20.0	23.5		ug/Kg		118	70 - 130	4	30
tert-Butanol	200	224		ug/Kg		112	70 - 130	0	30
1,4-Dioxane	200	215		ug/Kg		108	70 - 130	3	30
trans-1,4-Dichloro-2-butene	20.0	21.3	J	ug/Kg		106	70 - 130	5	30
Ethanol	400	368	J	ug/Kg		92	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Toluene-d8 (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: MB 620-32936/7

Matrix: Water

Analysis Batch: 32936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			03/20/24 20:51	1
Acetone	ND		10	ug/L			03/20/24 20:51	1
Acrylonitrile	ND		0.50	ug/L			03/20/24 20:51	1
Benzene	ND		1.0	ug/L			03/20/24 20:51	1
Bromobenzene	ND		1.0	ug/L			03/20/24 20:51	1
Bromochloromethane	ND		1.0	ug/L			03/20/24 20:51	1
Bromodichloromethane	ND		0.50	ug/L			03/20/24 20:51	1
Bromoform	ND		1.0	ug/L			03/20/24 20:51	1
Bromomethane	ND		2.0	ug/L			03/20/24 20:51	1
2-Butanone (MEK)	ND		2.0	ug/L			03/20/24 20:51	1
n-Butylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
sec-Butylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
tert-Butylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
Carbon disulfide	ND		2.0	ug/L			03/20/24 20:51	1
Carbon tetrachloride	ND		1.0	ug/L			03/20/24 20:51	1
Chlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
Chloroethane	ND		2.0	ug/L			03/20/24 20:51	1
Chloroform	ND		1.0	ug/L			03/20/24 20:51	1
Chloromethane	ND		2.0	ug/L			03/20/24 20:51	1
2-Chlorotoluene	ND		1.0	ug/L			03/20/24 20:51	1
4-Chlorotoluene	ND		1.0	ug/L			03/20/24 20:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/20/24 20:51	1
Dibromochloromethane	ND		0.50	ug/L			03/20/24 20:51	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			03/20/24 20:51	1
Dibromomethane	ND		1.0	ug/L			03/20/24 20:51	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			03/20/24 20:51	1
1,1-Dichloroethane	ND		1.0	ug/L			03/20/24 20:51	1
1,2-Dichloroethane	ND		1.0	ug/L			03/20/24 20:51	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32936/7

Matrix: Water

Analysis Batch: 32936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	ug/L			03/20/24 20:51	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/20/24 20:51	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/20/24 20:51	1
1,2-Dichloropropane	ND		1.0	ug/L			03/20/24 20:51	1
1,3-Dichloropropane	ND		1.0	ug/L			03/20/24 20:51	1
2,2-Dichloropropane	ND		1.0	ug/L			03/20/24 20:51	1
1,1-Dichloropropene	ND		1.0	ug/L			03/20/24 20:51	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			03/20/24 20:51	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			03/20/24 20:51	1
Ethylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
Hexachlorobutadiene	ND		1.0	ug/L			03/20/24 20:51	1
2-Hexanone (MBK)	ND		2.0	ug/L			03/20/24 20:51	1
Isopropylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
4-Isopropyltoluene	ND		1.0	ug/L			03/20/24 20:51	1
Methyl tert-butyl ether	ND		1.0	ug/L			03/20/24 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			03/20/24 20:51	1
Methylene Chloride	ND		2.0	ug/L			03/20/24 20:51	1
Naphthalene	ND		2.0	ug/L			03/20/24 20:51	1
N-Propylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
Styrene	ND		1.0	ug/L			03/20/24 20:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/20/24 20:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			03/20/24 20:51	1
Tetrachloroethene	ND		1.0	ug/L			03/20/24 20:51	1
Toluene	ND		1.0	ug/L			03/20/24 20:51	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/20/24 20:51	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/20/24 20:51	1
Trichloroethene	ND		1.0	ug/L			03/20/24 20:51	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			03/20/24 20:51	1
1,2,3-Trichloropropane	ND		1.0	ug/L			03/20/24 20:51	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/20/24 20:51	1
Vinyl chloride	ND		1.0	ug/L			03/20/24 20:51	1
m,p-Xylene	ND		1.0	ug/L			03/20/24 20:51	1
o-Xylene	ND		1.0	ug/L			03/20/24 20:51	1
Tetrahydrofuran	ND		2.0	ug/L			03/20/24 20:51	1
Ethyl ether	ND		1.0	ug/L			03/20/24 20:51	1
Tert-amyl methyl ether	ND		1.0	ug/L			03/20/24 20:51	1
Ethyl tert-butyl ether	ND		1.0	ug/L			03/20/24 20:51	1
di-Isopropyl ether	ND		1.0	ug/L			03/20/24 20:51	1
tert-Butanol	ND		10	ug/L			03/20/24 20:51	1
1,4-Dioxane	ND		50	ug/L			03/20/24 20:51	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			03/20/24 20:51	1
Ethanol	ND		200	ug/L			03/20/24 20:51	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32936/7

Matrix: Water

Analysis Batch: 32936

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		03/20/24 20:51	1
Toluene-d8 (Surr)	100		70 - 130		03/20/24 20:51	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		03/20/24 20:51	1
Dibromofluoromethane (Surr)	101		70 - 130		03/20/24 20:51	1

Lab Sample ID: LCS 620-32936/4

Matrix: Water

Analysis Batch: 32936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.1		ug/L		90	85 - 124
Acetone	20.0	13.1		ug/L		65	14 - 133
Acrylonitrile	20.0	22.4		ug/L		112	62 - 134
Benzene	20.0	21.7		ug/L		108	86 - 111
Bromobenzene	20.0	18.9		ug/L		95	82 - 120
Bromochloromethane	20.0	20.2		ug/L		101	83 - 123
Bromodichloromethane	20.0	20.7		ug/L		104	83 - 137
Bromoform	20.0	19.8		ug/L		99	91 - 137
Bromomethane	20.0	14.2		ug/L		71	29 - 148
2-Butanone (MEK)	20.0	13.3		ug/L		66	10 - 200
n-Butylbenzene	20.0	23.6		ug/L		118	85 - 138
sec-Butylbenzene	20.0	20.1		ug/L		101	75 - 118
tert-Butylbenzene	20.0	21.2		ug/L		106	85 - 122
Carbon disulfide	20.0	17.9		ug/L		90	69 - 150
Carbon tetrachloride	20.0	19.4		ug/L		97	84 - 123
Chlorobenzene	20.0	19.5		ug/L		98	93 - 115
Chloroethane	20.0	16.0		ug/L		80	56 - 155
Chloroform	20.0	21.1		ug/L		106	84 - 116
Chloromethane	20.0	19.5		ug/L		97	45 - 138
2-Chlorotoluene	20.0	22.2		ug/L		111	88 - 116
4-Chlorotoluene	20.0	23.0		ug/L		115	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	20.5		ug/L		102	70 - 139
Dibromochloromethane	20.0	19.5		ug/L		98	83 - 132
1,2-Dibromoethane (EDB)	20.0	21.3		ug/L		106	82 - 125
Dibromomethane	20.0	20.6		ug/L		103	80 - 125
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	84 - 128
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	85 - 120
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	17.8		ug/L		89	36 - 131
1,1-Dichloroethane	20.0	21.6		ug/L		108	81 - 120
1,2-Dichloroethane	20.0	19.6		ug/L		98	82 - 116
1,1-Dichloroethene	20.0	21.1		ug/L		105	83 - 120
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	81 - 124
trans-1,2-Dichloroethene	20.0	21.3		ug/L		107	81 - 127
1,2-Dichloropropane	20.0	21.4		ug/L		107	76 - 132
1,3-Dichloropropane	20.0	20.7		ug/L		104	74 - 122
2,2-Dichloropropane	20.0	21.3		ug/L		106	77 - 130

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32936/4

Matrix: Water

Analysis Batch: 32936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	20.0	20.5		ug/L		103	81 - 115
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	74 - 129
trans-1,3-Dichloropropene	20.0	23.3		ug/L		116	78 - 126
Ethylbenzene	20.0	21.4		ug/L		107	89 - 117
Hexachlorobutadiene	20.0	19.6		ug/L		98	77 - 118
2-Hexanone (MBK)	20.0	15.1		ug/L		75	37 - 123
Isopropylbenzene	20.0	20.6		ug/L		103	83 - 117
4-Isopropyltoluene	20.0	20.5		ug/L		103	83 - 124
Methyl tert-butyl ether	20.0	22.5		ug/L		113	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	19.1		ug/L		95	59 - 118
Methylene Chloride	20.0	20.5		ug/L		103	75 - 121
Naphthalene	20.0	21.4		ug/L		107	67 - 123
N-Propylbenzene	20.0	22.7		ug/L		113	84 - 128
Styrene	20.0	20.4		ug/L		102	78 - 127
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	91 - 118
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/L		98	77 - 129
Tetrachloroethene	20.0	19.7		ug/L		98	85 - 116
Toluene	20.0	20.1		ug/L		101	88 - 109
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		103	67 - 134
1,2,4-Trichlorobenzene	20.0	20.5		ug/L		103	78 - 133
1,3,5-Trichlorobenzene	20.0	21.5		ug/L		108	77 - 127
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	83 - 124
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	84 - 132
Trichloroethene	20.0	19.2		ug/L		96	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	20.4		ug/L		102	82 - 126
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	77 - 124
1,2,4-Trimethylbenzene	20.0	21.2		ug/L		106	89 - 126
1,3,5-Trimethylbenzene	20.0	20.6		ug/L		103	89 - 125
Vinyl chloride	20.0	22.3		ug/L		112	62 - 130
m,p-Xylene	40.0	49.4	*+	ug/L		124	85 - 123
o-Xylene	20.0	21.6		ug/L		108	85 - 119
Tetrahydrofuran	20.0	18.9		ug/L		95	60 - 133
Ethyl ether	20.0	19.2		ug/L		96	69 - 122
Tert-amyl methyl ether	20.0	22.1		ug/L		110	50 - 140
Ethyl tert-butyl ether	20.0	20.0		ug/L		100	60 - 131
di-Isopropyl ether	20.0	19.2		ug/L		96	67 - 125
tert-Butanol	200	226		ug/L		113	50 - 169
1,4-Dioxane	200	213		ug/L		107	28 - 150
trans-1,4-Dichloro-2-butene	20.0	22.2		ug/L		111	48 - 153
Ethanol	400	463		ug/L		116	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32936/5

Matrix: Water

Analysis Batch: 32936

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.5		ug/L		92	85 - 124	2	20
Acetone	20.0	14.1		ug/L		70	14 - 133	7	20
Acrylonitrile	20.0	22.6		ug/L		113	62 - 134	0	20
Benzene	20.0	21.4		ug/L		107	86 - 111	1	20
Bromobenzene	20.0	18.6		ug/L		93	82 - 120	2	20
Bromochloromethane	20.0	19.8		ug/L		99	83 - 123	2	20
Bromodichloromethane	20.0	20.2		ug/L		101	83 - 137	2	20
Bromoform	20.0	19.3		ug/L		97	91 - 137	2	20
Bromomethane	20.0	13.4		ug/L		67	29 - 148	6	20
2-Butanone (MEK)	20.0	15.3		ug/L		76	10 - 200	14	20
n-Butylbenzene	20.0	23.2		ug/L		116	85 - 138	2	20
sec-Butylbenzene	20.0	19.8		ug/L		99	75 - 118	1	20
tert-Butylbenzene	20.0	21.2		ug/L		106	85 - 122	0	20
Carbon disulfide	20.0	18.0		ug/L		90	69 - 150	1	20
Carbon tetrachloride	20.0	19.9		ug/L		99	84 - 123	3	20
Chlorobenzene	20.0	19.0		ug/L		95	93 - 115	3	20
Chloroethane	20.0	13.4		ug/L		67	56 - 155	18	20
Chloroform	20.0	20.8		ug/L		104	84 - 116	2	20
Chloromethane	20.0	18.9		ug/L		94	45 - 138	3	20
2-Chlorotoluene	20.0	21.5		ug/L		108	88 - 116	3	20
4-Chlorotoluene	20.0	22.7		ug/L		113	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		93	70 - 139	9	20
Dibromochloromethane	20.0	19.5		ug/L		98	83 - 132	0	20
1,2-Dibromoethane (EDB)	20.0	20.4		ug/L		102	82 - 125	4	20
Dibromomethane	20.0	20.3		ug/L		101	80 - 125	2	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		104	84 - 128	2	20
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	85 - 120	3	20
1,4-Dichlorobenzene	20.0	19.1		ug/L		96	86 - 116	2	20
Dichlorodifluoromethane (Freon 12)	20.0	17.9		ug/L		89	36 - 131	1	20
1,1-Dichloroethane	20.0	21.3		ug/L		106	81 - 120	2	20
1,2-Dichloroethane	20.0	19.4		ug/L		97	82 - 116	1	20
1,1-Dichloroethene	20.0	21.4		ug/L		107	83 - 120	1	20
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	81 - 124	0	20
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	81 - 127	1	20
1,2-Dichloropropane	20.0	21.7		ug/L		109	76 - 132	2	20
1,3-Dichloropropane	20.0	20.4		ug/L		102	74 - 122	1	20
2,2-Dichloropropane	20.0	21.4		ug/L		107	77 - 130	1	20
1,1-Dichloropropene	20.0	20.5		ug/L		103	81 - 115	0	20
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	74 - 129	2	20
trans-1,3-Dichloropropene	20.0	23.1		ug/L		115	78 - 126	1	20
Ethylbenzene	20.0	21.0		ug/L		105	89 - 117	2	20
Hexachlorobutadiene	20.0	19.5		ug/L		97	77 - 118	1	20
2-Hexanone (MBK)	20.0	15.2		ug/L		76	37 - 123	1	20
Isopropylbenzene	20.0	20.6		ug/L		103	83 - 117	0	20
4-Isopropyltoluene	20.0	20.4		ug/L		102	83 - 124	1	20
Methyl tert-butyl ether	20.0	22.7		ug/L		114	70 - 126	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.1		ug/L		101	59 - 118	5	20

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32936/5

Matrix: Water

Analysis Batch: 32936

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 Limit
Methylene Chloride	20.0	20.0		ug/L		100	75 - 121	3	20
Naphthalene	20.0	21.9		ug/L		110	67 - 123	2	20
N-Propylbenzene	20.0	22.4		ug/L		112	84 - 128	1	20
Styrene	20.0	20.4		ug/L		102	78 - 127	0	20
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	91 - 118	5	20
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		95	77 - 129	3	20
Tetrachloroethene	20.0	19.7		ug/L		99	85 - 116	0	20
Toluene	20.0	19.7		ug/L		99	88 - 109	2	20
1,2,3-Trichlorobenzene	20.0	20.0		ug/L		100	67 - 134	3	20
1,2,4-Trichlorobenzene	20.0	19.8		ug/L		99	78 - 133	4	20
1,3,5-Trichlorobenzene	20.0	21.5		ug/L		107	77 - 127	0	20
1,1,1-Trichloroethane	20.0	20.9		ug/L		105	83 - 124	0	20
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	84 - 132	2	20
Trichloroethene	20.0	19.6		ug/L		98	74 - 118	2	20
Trichlorofluoromethane (Freon 11)	20.0	20.5		ug/L		102	82 - 126	0	20
1,2,3-Trichloropropane	20.0	19.1		ug/L		95	77 - 124	4	20
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	89 - 126	2	20
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	89 - 125	2	20
Vinyl chloride	20.0	22.4		ug/L		112	62 - 130	0	20
m,p-Xylene	40.0	48.3		ug/L		121	85 - 123	2	20
o-Xylene	20.0	21.6		ug/L		108	85 - 119	0	20
Tetrahydrofuran	20.0	19.7		ug/L		99	60 - 133	4	20
Ethyl ether	20.0	19.4		ug/L		97	69 - 122	1	20
Tert-amyl methyl ether	20.0	21.9		ug/L		110	50 - 140	1	20
Ethyl tert-butyl ether	20.0	20.1		ug/L		101	60 - 131	1	20
di-Isopropyl ether	20.0	19.6		ug/L		98	67 - 125	2	20
tert-Butanol	200	221		ug/L		110	50 - 169	2	20
1,4-Dioxane	200	194		ug/L		97	28 - 150	10	20
trans-1,4-Dichloro-2-butene	20.0	21.6		ug/L		108	48 - 153	3	20
Ethanol	400	506		ug/L		126	47 - 170	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: MB 620-32972/3-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32972

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Acetone	ND		500	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Acrylonitrile	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Benzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Bromobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32972/3-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32972

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Bromodichloromethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Bromoform	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Bromomethane	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
2-Butanone (MEK)	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
n-Butylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
sec-Butylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
tert-Butylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Carbon disulfide	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Carbon tetrachloride	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Chlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Chloroethane	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Chloroform	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Chloromethane	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
2-Chlorotoluene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
4-Chlorotoluene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Dibromochloromethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Dibromomethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2-Dichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,3-Dichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,4-Dichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1-Dichloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2-Dichloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1-Dichloroethene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2-Dichloropropane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,3-Dichloropropane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
2,2-Dichloropropane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1-Dichloropropene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
cis-1,3-Dichloropropene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Ethylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Hexachlorobutadiene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
2-Hexanone (MBK)	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Isopropylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
4-Isopropyltoluene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Methyl tert-butyl ether	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Methylene Chloride	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Naphthalene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
N-Propylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Styrene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Tetrachloroethene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-32972/3-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32972

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1,1-Trichloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,1,2-Trichloroethane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Trichloroethene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2,3-Trichloropropane	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Vinyl chloride	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
m,p-Xylene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
o-Xylene	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Tetrahydrofuran	ND		100	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Ethyl ether	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Tert-amyl methyl ether	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Ethyl tert-butyl ether	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
di-Isopropyl ether	ND		50	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
tert-Butanol	ND		1000	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
1,4-Dioxane	ND		1000	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		03/21/24 08:30	03/21/24 11:16	1
Ethanol	ND		10000	ug/Kg		03/21/24 08:30	03/21/24 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/21/24 08:30	03/21/24 11:16	1
Toluene-d8 (Surr)	101		70 - 130	03/21/24 08:30	03/21/24 11:16	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130	03/21/24 08:30	03/21/24 11:16	1
Dibromofluoromethane (Surr)	103		70 - 130	03/21/24 08:30	03/21/24 11:16	1

Lab Sample ID: LCS 620-32972/1-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	882	*-	ug/Kg		88	91 - 125
Acetone	1000	694		ug/Kg		69	47 - 157
Acrylonitrile	1000	1200		ug/Kg		120	79 - 129
Benzene	1000	1070		ug/Kg		107	88 - 130
Bromobenzene	1000	954		ug/Kg		95	81 - 125
Bromochloromethane	1000	1020		ug/Kg		102	85 - 139
Bromodichloromethane	1000	1040		ug/Kg		104	84 - 134
Bromoform	1000	1070		ug/Kg		107	83 - 131
Bromomethane	1000	724		ug/Kg		72	63 - 157
2-Butanone (MEK)	1000	813		ug/Kg		81	58 - 161
n-Butylbenzene	1000	1090		ug/Kg		109	83 - 137
sec-Butylbenzene	1000	977		ug/Kg		98	79 - 131
tert-Butylbenzene	1000	1040		ug/Kg		104	82 - 131

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32972/1-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	1000	888		ug/Kg		89	82 - 135
Carbon tetrachloride	1000	998		ug/Kg		100	77 - 139
Chlorobenzene	1000	962		ug/Kg		96	85 - 121
Chloroethane	1000	623		ug/Kg		62	61 - 156
Chloroform	1000	1100		ug/Kg		110	89 - 123
Chloromethane	1000	900		ug/Kg		90	81 - 130
2-Chlorotoluene	1000	1090		ug/Kg		109	90 - 117
4-Chlorotoluene	1000	1150		ug/Kg		115	88 - 121
1,2-Dibromo-3-Chloropropane	1000	1130		ug/Kg		113	75 - 142
Dibromochloromethane	1000	1020		ug/Kg		102	85 - 131
1,2-Dibromoethane (EDB)	1000	1090		ug/Kg		109	85 - 133
Dibromomethane	1000	1040		ug/Kg		104	90 - 128
1,2-Dichlorobenzene	1000	1060		ug/Kg		106	88 - 128
1,3-Dichlorobenzene	1000	1110		ug/Kg		111	78 - 133
1,4-Dichlorobenzene	1000	992		ug/Kg		99	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	881		ug/Kg		88	55 - 159
1,1-Dichloroethane	1000	1050		ug/Kg		105	89 - 129
1,2-Dichloroethane	1000	1030		ug/Kg		103	82 - 137
1,1-Dichloroethene	1000	1000		ug/Kg		100	82 - 138
cis-1,2-Dichloroethene	1000	1050		ug/Kg		105	79 - 133
trans-1,2-Dichloroethene	1000	1020		ug/Kg		102	81 - 137
1,2-Dichloropropane	1000	1050		ug/Kg		105	89 - 128
1,3-Dichloropropane	1000	1050		ug/Kg		105	86 - 133
2,2-Dichloropropane	1000	1050		ug/Kg		105	91 - 131
1,1-Dichloropropene	1000	961		ug/Kg		96	75 - 137
cis-1,3-Dichloropropene	1000	962		ug/Kg		96	84 - 122
trans-1,3-Dichloropropene	1000	1170		ug/Kg		117	90 - 121
Ethylbenzene	1000	1060		ug/Kg		106	89 - 126
Hexachlorobutadiene	1000	933		ug/Kg		93	74 - 131
2-Hexanone (MBK)	1000	843		ug/Kg		84	41 - 167
Isopropylbenzene	1000	1020		ug/Kg		102	88 - 125
4-Isopropyltoluene	1000	961		ug/Kg		96	86 - 128
Methyl tert-butyl ether	1000	1120		ug/Kg		112	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	1060		ug/Kg		106	80 - 135
Methylene Chloride	1000	1010		ug/Kg		101	87 - 119
Naphthalene	1000	1100		ug/Kg		110	60 - 145
N-Propylbenzene	1000	1120		ug/Kg		112	87 - 120
Styrene	1000	1030		ug/Kg		103	88 - 125
1,1,1,2-Tetrachloroethane	1000	969		ug/Kg		97	81 - 128
1,1,2,2-Tetrachloroethane	1000	1060		ug/Kg		106	88 - 126
Tetrachloroethene	1000	1000		ug/Kg		100	81 - 124
Toluene	1000	996		ug/Kg		100	84 - 124
1,2,3-Trichlorobenzene	1000	1050		ug/Kg		105	68 - 145
1,2,4-Trichlorobenzene	1000	998		ug/Kg		100	57 - 141
1,3,5-Trichlorobenzene	1000	1050		ug/Kg		105	70 - 137
1,1,1-Trichloroethane	1000	1040		ug/Kg		104	88 - 131
1,1,2-Trichloroethane	1000	1070		ug/Kg		107	91 - 129
Trichloroethene	1000	979		ug/Kg		98	88 - 131

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-32972/1-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane (Freon 11)	1000	1050		ug/Kg		105	86 - 130
1,2,3-Trichloropropane	1000	1080		ug/Kg		108	92 - 126
1,2,4-Trimethylbenzene	1000	1050		ug/Kg		105	87 - 126
1,3,5-Trimethylbenzene	1000	1010		ug/Kg		101	90 - 125
Vinyl chloride	1000	1080		ug/Kg		108	73 - 145
m,p-Xylene	2000	2460	*+	ug/Kg		123	83 - 122
o-Xylene	1000	1060		ug/Kg		106	87 - 122
Tetrahydrofuran	1000	927		ug/Kg		93	81 - 134
Ethyl ether	1000	960		ug/Kg		96	84 - 144
Tert-amyl methyl ether	1000	1090		ug/Kg		109	69 - 151
Ethyl tert-butyl ether	1000	960		ug/Kg		96	75 - 128
di-Isopropyl ether	1000	890		ug/Kg		89	82 - 131
tert-Butanol	10000	13000		ug/Kg		130	85 - 148
1,4-Dioxane	10000	11600		ug/Kg		116	10 - 178
trans-1,4-Dichloro-2-butene	1000	1280		ug/Kg		128	74 - 151
Ethanol	20000	21500		ug/Kg		108	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: LCSD 620-32972/2-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	879	*-	ug/Kg		88	91 - 125	0	30
Acetone	1000	676		ug/Kg		68	47 - 157	3	30
Acrylonitrile	1000	1250		ug/Kg		125	79 - 129	4	30
Benzene	1000	1050		ug/Kg		105	88 - 130	1	30
Bromobenzene	1000	948		ug/Kg		95	81 - 125	1	30
Bromochloromethane	1000	989		ug/Kg		99	85 - 139	3	30
Bromodichloromethane	1000	1040		ug/Kg		104	84 - 134	0	30
Bromoform	1000	1060		ug/Kg		106	83 - 131	2	30
Bromomethane	1000	708		ug/Kg		71	63 - 157	2	30
2-Butanone (MEK)	1000	767		ug/Kg		77	58 - 161	6	30
n-Butylbenzene	1000	1100		ug/Kg		110	83 - 137	1	30
sec-Butylbenzene	1000	958		ug/Kg		96	79 - 131	2	30
tert-Butylbenzene	1000	1040		ug/Kg		104	82 - 131	0	30
Carbon disulfide	1000	884		ug/Kg		88	82 - 135	0	30
Carbon tetrachloride	1000	989		ug/Kg		99	77 - 139	1	30
Chlorobenzene	1000	958		ug/Kg		96	85 - 121	0	30
Chloroethane	1000	621		ug/Kg		62	61 - 156	0	30
Chloroform	1000	1080		ug/Kg		108	89 - 123	1	30
Chloromethane	1000	905		ug/Kg		91	81 - 130	1	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32972/2-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chlorotoluene	1000	1090		ug/Kg		109	90 - 117	0	30
4-Chlorotoluene	1000	1130		ug/Kg		113	88 - 121	2	30
1,2-Dibromo-3-Chloropropane	1000	1090		ug/Kg		109	75 - 142	3	30
Dibromochloromethane	1000	1010		ug/Kg		101	85 - 131	1	30
1,2-Dibromoethane (EDB)	1000	1100		ug/Kg		110	85 - 133	1	30
Dibromomethane	1000	1040		ug/Kg		104	90 - 128	1	30
1,2-Dichlorobenzene	1000	1050		ug/Kg		105	88 - 128	1	30
1,3-Dichlorobenzene	1000	1080		ug/Kg		108	78 - 133	3	30
1,4-Dichlorobenzene	1000	943		ug/Kg		94	88 - 121	5	30
Dichlorodifluoromethane (Freon 12)	1000	872		ug/Kg		87	55 - 159	1	30
1,1-Dichloroethane	1000	1030		ug/Kg		103	89 - 129	2	30
1,2-Dichloroethane	1000	995		ug/Kg		100	82 - 137	3	30
1,1-Dichloroethene	1000	1040		ug/Kg		104	82 - 138	4	30
cis-1,2-Dichloroethene	1000	1040		ug/Kg		104	79 - 133	1	30
trans-1,2-Dichloroethene	1000	1050		ug/Kg		105	81 - 137	2	30
1,2-Dichloropropane	1000	1050		ug/Kg		105	89 - 128	0	30
1,3-Dichloropropane	1000	1030		ug/Kg		103	86 - 133	2	30
2,2-Dichloropropane	1000	1050		ug/Kg		105	91 - 131	0	30
1,1-Dichloropropene	1000	984		ug/Kg		98	75 - 137	2	30
cis-1,3-Dichloropropene	1000	995		ug/Kg		99	84 - 122	3	30
trans-1,3-Dichloropropene	1000	1170		ug/Kg		117	90 - 121	0	30
Ethylbenzene	1000	1040		ug/Kg		104	89 - 126	2	30
Hexachlorobutadiene	1000	919		ug/Kg		92	74 - 131	2	30
2-Hexanone (MBK)	1000	796		ug/Kg		80	41 - 167	6	30
Isopropylbenzene	1000	996		ug/Kg		100	88 - 125	3	30
4-Isopropyltoluene	1000	987		ug/Kg		99	86 - 128	3	30
Methyl tert-butyl ether	1000	1110		ug/Kg		111	74 - 144	1	30
4-Methyl-2-pentanone (MIBK)	1000	1050		ug/Kg		105	80 - 135	1	30
Methylene Chloride	1000	996		ug/Kg		100	87 - 119	1	30
Naphthalene	1000	1110		ug/Kg		111	60 - 145	0	30
N-Propylbenzene	1000	1100		ug/Kg		110	87 - 120	2	30
Styrene	1000	1020		ug/Kg		102	88 - 125	1	30
1,1,1,2-Tetrachloroethane	1000	955		ug/Kg		96	81 - 128	1	30
1,1,2,2-Tetrachloroethane	1000	1020		ug/Kg		102	88 - 126	4	30
Tetrachloroethene	1000	976		ug/Kg		98	81 - 124	2	30
Toluene	1000	982		ug/Kg		98	84 - 124	1	30
1,2,3-Trichlorobenzene	1000	1090		ug/Kg		109	68 - 145	4	30
1,2,4-Trichlorobenzene	1000	1010		ug/Kg		101	57 - 141	1	30
1,3,5-Trichlorobenzene	1000	1070		ug/Kg		107	70 - 137	1	30
1,1,1-Trichloroethane	1000	1010		ug/Kg		101	88 - 131	2	30
1,1,2-Trichloroethane	1000	1050		ug/Kg		105	91 - 129	2	30
Trichloroethene	1000	990		ug/Kg		99	88 - 131	1	30
Trichlorofluoromethane (Freon 11)	1000	1030		ug/Kg		103	86 - 130	2	30
1,2,3-Trichloropropane	1000	1020		ug/Kg		102	92 - 126	6	30
1,2,4-Trimethylbenzene	1000	1030		ug/Kg		103	87 - 126	2	30
1,3,5-Trimethylbenzene	1000	1000		ug/Kg		100	90 - 125	1	30
Vinyl chloride	1000	1060		ug/Kg		106	73 - 145	1	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-32972/2-A

Matrix: Solid

Analysis Batch: 32941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylene	2000	2400		ug/Kg		120	83 - 122	2	30
o-Xylene	1000	1060		ug/Kg		106	87 - 122	0	30
Tetrahydrofuran	1000	913		ug/Kg		91	81 - 134	2	30
Ethyl ether	1000	984		ug/Kg		98	84 - 144	3	30
Tert-amyl methyl ether	1000	1080		ug/Kg		108	69 - 151	1	30
Ethyl tert-butyl ether	1000	970		ug/Kg		97	75 - 128	1	30
di-Isopropyl ether	1000	929		ug/Kg		93	82 - 131	4	30
tert-Butanol	10000	13100		ug/Kg		131	85 - 148	1	30
1,4-Dioxane	10000	11700		ug/Kg		117	10 - 178	1	30
trans-1,4-Dichloro-2-butene	1000	1250		ug/Kg		125	74 - 151	3	30
Ethanol	20000	22200		ug/Kg		111	83 - 135	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Lab Sample ID: MB 620-33016/3-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Acetone	ND		500	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Acrylonitrile	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Benzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Bromobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Bromochloromethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Bromodichloromethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Bromoform	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Bromomethane	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
2-Butanone (MEK)	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
n-Butylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
sec-Butylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
tert-Butylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Carbon disulfide	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Carbon tetrachloride	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Chlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Chloroethane	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Chloroform	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Chloromethane	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
2-Chlorotoluene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
4-Chlorotoluene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Dibromochloromethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Dibromomethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-33016/3-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,3-Dichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,4-Dichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1-Dichloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2-Dichloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1-Dichloroethene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2-Dichloropropane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,3-Dichloropropane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
2,2-Dichloropropane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1-Dichloropropene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
cis-1,3-Dichloropropene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Ethylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Hexachlorobutadiene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
2-Hexanone (MBK)	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Isopropylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
4-Isopropyltoluene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Methyl tert-butyl ether	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Methylene Chloride	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Naphthalene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
N-Propylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Styrene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Tetrachloroethene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Toluene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1,1-Trichloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,1,2-Trichloroethane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Trichloroethene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2,3-Trichloropropane	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Vinyl chloride	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
m,p-Xylene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
o-Xylene	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Tetrahydrofuran	ND		100	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Ethyl ether	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Tert-amyl methyl ether	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Ethyl tert-butyl ether	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
di-Isopropyl ether	ND		50	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
tert-Butanol	ND		1000	ug/Kg		03/22/24 09:00	03/22/24 11:48	1

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: MB 620-33016/3-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33016

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1000	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Ethanol	ND		10000	ug/Kg		03/22/24 09:00	03/22/24 11:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/22/24 09:00	03/22/24 11:48	1
Toluene-d8 (Surr)	100		70 - 130			03/22/24 09:00	03/22/24 11:48	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130			03/22/24 09:00	03/22/24 11:48	1
Dibromofluoromethane (Surr)	100		70 - 130			03/22/24 09:00	03/22/24 11:48	1

Lab Sample ID: LCS 620-33016/1-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	907		ug/Kg		91	91 - 125
Acetone	1000	688		ug/Kg		69	47 - 157
Acrylonitrile	1000	1270		ug/Kg		127	79 - 129
Benzene	1000	1110		ug/Kg		111	88 - 130
Bromobenzene	1000	980		ug/Kg		98	81 - 125
Bromochloromethane	1000	1020		ug/Kg		102	85 - 139
Bromodichloromethane	1000	1060		ug/Kg		106	84 - 134
Bromoform	1000	1050		ug/Kg		105	83 - 131
Bromomethane	1000	653		ug/Kg		65	63 - 157
2-Butanone (MEK)	1000	864		ug/Kg		86	58 - 161
n-Butylbenzene	1000	1170		ug/Kg		117	83 - 137
sec-Butylbenzene	1000	1010		ug/Kg		101	79 - 131
tert-Butylbenzene	1000	1100		ug/Kg		110	82 - 131
Carbon disulfide	1000	897		ug/Kg		90	82 - 135
Carbon tetrachloride	1000	998		ug/Kg		100	77 - 139
Chlorobenzene	1000	979		ug/Kg		98	85 - 121
Chloroethane	1000	614		ug/Kg		61	61 - 156
Chloroform	1000	1070		ug/Kg		107	89 - 123
Chloromethane	1000	983		ug/Kg		98	81 - 130
2-Chlorotoluene	1000	1140		ug/Kg		114	90 - 117
4-Chlorotoluene	1000	1190		ug/Kg		119	88 - 121
1,2-Dibromo-3-Chloropropane	1000	1080		ug/Kg		108	75 - 142
Dibromochloromethane	1000	1030		ug/Kg		103	85 - 131
1,2-Dibromoethane (EDB)	1000	1120		ug/Kg		112	85 - 133
Dibromomethane	1000	1040		ug/Kg		104	90 - 128
1,2-Dichlorobenzene	1000	1100		ug/Kg		110	88 - 128
1,3-Dichlorobenzene	1000	1100		ug/Kg		110	78 - 133
1,4-Dichlorobenzene	1000	994		ug/Kg		99	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	873		ug/Kg		87	55 - 159
1,1-Dichloroethane	1000	1090		ug/Kg		109	89 - 129
1,2-Dichloroethane	1000	1000		ug/Kg		100	82 - 137
1,1-Dichloroethene	1000	1060		ug/Kg		106	82 - 138

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-33016/1-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	1000	1110		ug/Kg		111	79 - 133
trans-1,2-Dichloroethene	1000	1120		ug/Kg		112	81 - 137
1,2-Dichloropropane	1000	1090		ug/Kg		109	89 - 128
1,3-Dichloropropane	1000	1090		ug/Kg		109	86 - 133
2,2-Dichloropropane	1000	1130		ug/Kg		113	91 - 131
1,1-Dichloropropene	1000	1040		ug/Kg		104	75 - 137
cis-1,3-Dichloropropene	1000	1090		ug/Kg		109	84 - 122
trans-1,3-Dichloropropene	1000	1230	*+	ug/Kg		123	90 - 121
Ethylbenzene	1000	1090		ug/Kg		109	89 - 126
Hexachlorobutadiene	1000	988		ug/Kg		99	74 - 131
2-Hexanone (MBK)	1000	866		ug/Kg		87	41 - 167
Isopropylbenzene	1000	1070		ug/Kg		107	88 - 125
4-Isopropyltoluene	1000	1050		ug/Kg		105	86 - 128
Methyl tert-butyl ether	1000	1230		ug/Kg		123	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	1120		ug/Kg		112	80 - 135
Methylene Chloride	1000	1030		ug/Kg		103	87 - 119
Naphthalene	1000	1190		ug/Kg		119	60 - 145
N-Propylbenzene	1000	1150		ug/Kg		115	87 - 120
Styrene	1000	1060		ug/Kg		106	88 - 125
1,1,1,2-Tetrachloroethane	1000	971		ug/Kg		97	81 - 128
1,1,2,2-Tetrachloroethane	1000	1030		ug/Kg		103	88 - 126
Tetrachloroethene	1000	1020		ug/Kg		102	81 - 124
Toluene	1000	1010		ug/Kg		101	84 - 124
1,2,3-Trichlorobenzene	1000	1110		ug/Kg		111	68 - 145
1,2,4-Trichlorobenzene	1000	1080		ug/Kg		108	57 - 141
1,3,5-Trichlorobenzene	1000	1140		ug/Kg		114	70 - 137
1,1,1-Trichloroethane	1000	1060		ug/Kg		106	88 - 131
1,1,2-Trichloroethane	1000	1080		ug/Kg		108	91 - 129
Trichloroethene	1000	983		ug/Kg		98	88 - 131
Trichlorofluoromethane (Freon 11)	1000	1030		ug/Kg		103	86 - 130
1,2,3-Trichloropropane	1000	1040		ug/Kg		104	92 - 126
1,2,4-Trimethylbenzene	1000	1060		ug/Kg		106	87 - 126
1,3,5-Trimethylbenzene	1000	1040		ug/Kg		104	90 - 125
Vinyl chloride	1000	878		ug/Kg		88	73 - 145
m,p-Xylene	2000	2540	*+	ug/Kg		127	83 - 122
o-Xylene	1000	1120		ug/Kg		112	87 - 122
Tetrahydrofuran	1000	1080		ug/Kg		108	81 - 134
Ethyl ether	1000	1030		ug/Kg		103	84 - 144
Tert-amyl methyl ether	1000	1180		ug/Kg		118	69 - 151
Ethyl tert-butyl ether	1000	1080		ug/Kg		108	75 - 128
di-Isopropyl ether	1000	1000		ug/Kg		100	82 - 131
tert-Butanol	10000	13100		ug/Kg		131	85 - 148
1,4-Dioxane	10000	10900		ug/Kg		109	10 - 178
trans-1,4-Dichloro-2-butene	1000	1230		ug/Kg		123	74 - 151
Ethanol	20000	20600		ug/Kg		103	83 - 135

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCS 620-33016/1-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33016

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: LCSD 620-33016/2-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	884	*-	ug/Kg		88	91 - 125	3	30
Acetone	1000	529		ug/Kg		53	47 - 157	26	30
Acrylonitrile	1000	1180		ug/Kg		118	79 - 129	7	30
Benzene	1000	1050		ug/Kg		105	88 - 130	6	30
Bromobenzene	1000	935		ug/Kg		94	81 - 125	5	30
Bromochloromethane	1000	984		ug/Kg		98	85 - 139	3	30
Bromodichloromethane	1000	1020		ug/Kg		102	84 - 134	3	30
Bromoform	1000	1010		ug/Kg		101	83 - 131	4	30
Bromomethane	1000	665		ug/Kg		67	63 - 157	2	30
2-Butanone (MEK)	1000	728		ug/Kg		73	58 - 161	17	30
n-Butylbenzene	1000	1150		ug/Kg		115	83 - 137	2	30
sec-Butylbenzene	1000	980		ug/Kg		98	79 - 131	3	30
tert-Butylbenzene	1000	1070		ug/Kg		107	82 - 131	2	30
Carbon disulfide	1000	851		ug/Kg		85	82 - 135	5	30
Carbon tetrachloride	1000	973		ug/Kg		97	77 - 139	3	30
Chlorobenzene	1000	944		ug/Kg		94	85 - 121	4	30
Chloroethane	1000	507	*-	ug/Kg		51	61 - 156	19	30
Chloroform	1000	1040		ug/Kg		104	89 - 123	3	30
Chloromethane	1000	922		ug/Kg		92	81 - 130	6	30
2-Chlorotoluene	1000	1100		ug/Kg		110	90 - 117	4	30
4-Chlorotoluene	1000	1140		ug/Kg		114	88 - 121	4	30
1,2-Dibromo-3-Chloropropane	1000	997		ug/Kg		100	75 - 142	8	30
Dibromochloromethane	1000	997		ug/Kg		100	85 - 131	3	30
1,2-Dibromoethane (EDB)	1000	1070		ug/Kg		107	85 - 133	5	30
Dibromomethane	1000	1010		ug/Kg		101	90 - 128	3	30
1,2-Dichlorobenzene	1000	1060		ug/Kg		106	88 - 128	4	30
1,3-Dichlorobenzene	1000	1060		ug/Kg		106	78 - 133	4	30
1,4-Dichlorobenzene	1000	942		ug/Kg		94	88 - 121	5	30
Dichlorodifluoromethane (Freon 12)	1000	834		ug/Kg		83	55 - 159	5	30
1,1-Dichloroethane	1000	1060		ug/Kg		106	89 - 129	2	30
1,2-Dichloroethane	1000	964		ug/Kg		96	82 - 137	4	30
1,1-Dichloroethene	1000	1030		ug/Kg		103	82 - 138	3	30
cis-1,2-Dichloroethene	1000	1080		ug/Kg		108	79 - 133	2	30
trans-1,2-Dichloroethene	1000	1070		ug/Kg		107	81 - 137	5	30
1,2-Dichloropropane	1000	1070		ug/Kg		107	89 - 128	2	30
1,3-Dichloropropane	1000	1030		ug/Kg		103	86 - 133	5	30
2,2-Dichloropropane	1000	1080		ug/Kg		108	91 - 131	5	30

Eurofins New England

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

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

Lab Sample ID: LCSD 620-33016/2-A

Matrix: Solid

Analysis Batch: 32993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33016

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloropropene	1000	1010		ug/Kg		101	75 - 137	2	30
cis-1,3-Dichloropropene	1000	1070		ug/Kg		107	84 - 122	2	30
trans-1,3-Dichloropropene	1000	1190		ug/Kg		119	90 - 121	4	30
Ethylbenzene	1000	1040		ug/Kg		104	89 - 126	4	30
Hexachlorobutadiene	1000	938		ug/Kg		94	74 - 131	5	30
2-Hexanone (MBK)	1000	793		ug/Kg		79	41 - 167	9	30
Isopropylbenzene	1000	1050		ug/Kg		105	88 - 125	2	30
4-Isopropyltoluene	1000	1020		ug/Kg		102	86 - 128	3	30
Methyl tert-butyl ether	1000	1200		ug/Kg		120	74 - 144	2	30
4-Methyl-2-pentanone (MIBK)	1000	1040		ug/Kg		104	80 - 135	7	30
Methylene Chloride	1000	985		ug/Kg		98	87 - 119	5	30
Naphthalene	1000	1150		ug/Kg		115	60 - 145	4	30
N-Propylbenzene	1000	1120		ug/Kg		112	87 - 120	2	30
Styrene	1000	1040		ug/Kg		104	88 - 125	2	30
1,1,1,2-Tetrachloroethane	1000	922		ug/Kg		92	81 - 128	5	30
1,1,2,2-Tetrachloroethane	1000	961		ug/Kg		96	88 - 126	7	30
Tetrachloroethene	1000	981		ug/Kg		98	81 - 124	4	30
Toluene	1000	992		ug/Kg		99	84 - 124	2	30
1,2,3-Trichlorobenzene	1000	1060		ug/Kg		106	68 - 145	4	30
1,2,4-Trichlorobenzene	1000	1060		ug/Kg		106	57 - 141	2	30
1,3,5-Trichlorobenzene	1000	1080		ug/Kg		108	70 - 137	5	30
1,1,1-Trichloroethane	1000	1030		ug/Kg		103	88 - 131	3	30
1,1,2-Trichloroethane	1000	1040		ug/Kg		104	91 - 129	4	30
Trichloroethene	1000	957		ug/Kg		96	88 - 131	3	30
Trichlorofluoromethane (Freon 11)	1000	1000		ug/Kg		100	86 - 130	3	30
1,2,3-Trichloropropane	1000	962		ug/Kg		96	92 - 126	8	30
1,2,4-Trimethylbenzene	1000	1040		ug/Kg		104	87 - 126	2	30
1,3,5-Trimethylbenzene	1000	1020		ug/Kg		102	90 - 125	2	30
Vinyl chloride	1000	1070		ug/Kg		107	73 - 145	19	30
m,p-Xylene	2000	2430		ug/Kg		121	83 - 122	4	30
o-Xylene	1000	1110		ug/Kg		111	87 - 122	1	30
Tetrahydrofuran	1000	1010		ug/Kg		101	81 - 134	7	30
Ethyl ether	1000	972		ug/Kg		97	84 - 144	5	30
Tert-amyl methyl ether	1000	1140		ug/Kg		114	69 - 151	4	30
Ethyl tert-butyl ether	1000	1050		ug/Kg		105	75 - 128	2	30
di-Isopropyl ether	1000	988		ug/Kg		99	82 - 131	1	30
tert-Butanol	10000	12900		ug/Kg		129	85 - 148	2	30
1,4-Dioxane	10000	10100		ug/Kg		101	10 - 178	8	30
trans-1,4-Dichloro-2-butene	1000	1180		ug/Kg		118	74 - 151	5	30
Ethanol	20000	19300		ug/Kg		97	83 - 135	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

GC/MS VOA

Pre Prep Batch: 32754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11	EA6/1R Day 30, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17406-12	EA6/1R Day 30, 1x	Total/NA	Solid	Frozen Preserve	
620-17406-13	EA6/1R Day 30, 2x	Total/NA	Solid	Frozen Preserve	
620-17406-14	EA6/1R Day 30, 3x	Total/NA	Solid	Frozen Preserve	
620-17406-15	EA6/1R Day 30, ctrl	Total/NA	Solid	Frozen Preserve	
620-17406-16	4R Day 30, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17406-17	4R Day 30, 1x	Total/NA	Solid	Frozen Preserve	
620-17406-18	4R Day 30, 2x	Total/NA	Solid	Frozen Preserve	
620-17406-19	4R Day 30, 3x	Total/NA	Solid	Frozen Preserve	
620-17406-20	4R Day 30, ctrl	Total/NA	Solid	Frozen Preserve	
620-17406-21	EA6/1R Day 30b, 0.5x	Total/NA	Solid	Frozen Preserve	
620-17406-22	EA6/1R Day 30b, 1x	Total/NA	Solid	Frozen Preserve	
620-17406-23	EA6/1R Day 30b, 2x	Total/NA	Solid	Frozen Preserve	
620-17406-24	EA6/1R Day 30b, 3x	Total/NA	Solid	Frozen Preserve	
620-17406-25	EA6/1R Day 30b, ctrl	Total/NA	Solid	Frozen Preserve	
620-17406-27	4R Day 30b, 1x	Total/NA	Solid	Frozen Preserve	
620-17406-28	4R Day 30b, 2x	Total/NA	Solid	Frozen Preserve	
620-17406-30	4R Day 30b, ctrl	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 32793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-1	EA6/1R Day 30, 0.5x	Total/NA	Water	8260C	
620-17406-2	EA6/1R Day 30, 1x	Total/NA	Water	8260C	
620-17406-3	EA6/1R Day 30, 2x	Total/NA	Water	8260C	
620-17406-4	EA6/1R Day 30, 3x	Total/NA	Water	8260C	
620-17406-5	EA6/1R Day 30, ctrl	Total/NA	Water	8260C	
MB 620-32793/7	Method Blank	Total/NA	Water	8260C	
LCS 620-32793/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-32793/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 32847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11	EA6/1R Day 30, 0.5x	Total/NA	Solid	8260C	32868
620-17406-12	EA6/1R Day 30, 1x	Total/NA	Solid	8260C	32868
620-17406-13	EA6/1R Day 30, 2x	Total/NA	Solid	8260C	32868
620-17406-14	EA6/1R Day 30, 3x	Total/NA	Solid	8260C	32868
620-17406-15	EA6/1R Day 30, ctrl	Total/NA	Solid	8260C	32868
620-17406-16	4R Day 30, 0.5x	Total/NA	Solid	8260C	32868

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

GC/MS VOA (Continued)

Analysis Batch: 32847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-17	4R Day 30, 1x	Total/NA	Solid	8260C	32868
620-17406-18	4R Day 30, 2x	Total/NA	Solid	8260C	32868
620-17406-19	4R Day 30, 3x	Total/NA	Solid	8260C	32868
620-17406-20	4R Day 30, ctrl	Total/NA	Solid	8260C	32868
620-17406-21	EA6/1R Day 30b, 0.5x	Total/NA	Solid	8260C	32868
620-17406-22	EA6/1R Day 30b, 1x	Total/NA	Solid	8260C	32868
620-17406-23	EA6/1R Day 30b, 2x	Total/NA	Solid	8260C	32868
620-17406-24	EA6/1R Day 30b, 3x	Total/NA	Solid	8260C	32868
620-17406-25	EA6/1R Day 30b, ctrl	Total/NA	Solid	8260C	32868
MB 620-32868/3-A	Method Blank	Total/NA	Solid	8260C	32868
LCS 620-32868/1-A	Lab Control Sample	Total/NA	Solid	8260C	32868
LCSD 620-32868/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32868

Prep Batch: 32868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11	EA6/1R Day 30, 0.5x	Total/NA	Solid	5035	32754
620-17406-12	EA6/1R Day 30, 1x	Total/NA	Solid	5035	32754
620-17406-13	EA6/1R Day 30, 2x	Total/NA	Solid	5035	32754
620-17406-14	EA6/1R Day 30, 3x	Total/NA	Solid	5035	32754
620-17406-15	EA6/1R Day 30, ctrl	Total/NA	Solid	5035	32754
620-17406-16	4R Day 30, 0.5x	Total/NA	Solid	5035	32754
620-17406-17	4R Day 30, 1x	Total/NA	Solid	5035	32754
620-17406-18	4R Day 30, 2x	Total/NA	Solid	5035	32754
620-17406-19	4R Day 30, 3x	Total/NA	Solid	5035	32754
620-17406-20	4R Day 30, ctrl	Total/NA	Solid	5035	32754
620-17406-21	EA6/1R Day 30b, 0.5x	Total/NA	Solid	5035	32754
620-17406-22	EA6/1R Day 30b, 1x	Total/NA	Solid	5035	32754
620-17406-23	EA6/1R Day 30b, 2x	Total/NA	Solid	5035	32754
620-17406-24	EA6/1R Day 30b, 3x	Total/NA	Solid	5035	32754
620-17406-25	EA6/1R Day 30b, ctrl	Total/NA	Solid	5035	32754
MB 620-32868/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-32868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-1 - DL	EA6/1R Day 30, 0.5x	Total/NA	Water	8260C	
620-17406-2 - DL	EA6/1R Day 30, 1x	Total/NA	Water	8260C	
620-17406-4 - DL	EA6/1R Day 30, 3x	Total/NA	Water	8260C	
620-17406-5 - DL2	EA6/1R Day 30, ctrl	Total/NA	Water	8260C	
620-17406-5 - DL	EA6/1R Day 30, ctrl	Total/NA	Water	8260C	
MB 620-32894/7	Method Blank	Total/NA	Water	8260C	
LCS 620-32894/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-32894/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Prep Batch: 32902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-27	4R Day 30b, 1x	Total/NA	Solid	5035	32754
620-17406-28	4R Day 30b, 2x	Total/NA	Solid	5035	32754
620-17406-30	4R Day 30b, ctrl	Total/NA	Solid	5035	32754
MB 620-32902/3-A	Method Blank	Total/NA	Solid	5035	

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

GC/MS VOA (Continued)

Prep Batch: 32902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-32902/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32902/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-27	4R Day 30b, 1x	Total/NA	Solid	8260C	32902
620-17406-28	4R Day 30b, 2x	Total/NA	Solid	8260C	32902
620-17406-30	4R Day 30b, ctrl	Total/NA	Solid	8260C	32902
MB 620-32902/3-A	Method Blank	Total/NA	Solid	8260C	32902
LCS 620-32902/1-A	Lab Control Sample	Total/NA	Solid	8260C	32902
LCSD 620-32902/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32902

Analysis Batch: 32936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-6	4R Day 30, 0.5x	Total/NA	Water	8260C	
620-17406-7	4R Day 30, 1x	Total/NA	Water	8260C	
620-17406-8	4R Day 30, 2x	Total/NA	Water	8260C	
620-17406-9	4R Day 30, 3x	Total/NA	Water	8260C	
620-17406-10	4R Day 30,ctrl	Total/NA	Water	8260C	
MB 620-32936/7	Method Blank	Total/NA	Water	8260C	
LCS 620-32936/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-32936/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 32941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11 - ME	EA6/1R Day 30, 0.5x	Total/NA	Solid	8260C	32972
620-17406-12 - ME	EA6/1R Day 30, 1x	Total/NA	Solid	8260C	32972
620-17406-13 - ME	EA6/1R Day 30, 2x	Total/NA	Solid	8260C	32972
620-17406-14 - ME	EA6/1R Day 30, 3x	Total/NA	Solid	8260C	32972
620-17406-15 - ME	EA6/1R Day 30, ctrl	Total/NA	Solid	8260C	32972
620-17406-16 - ME	4R Day 30, 0.5x	Total/NA	Solid	8260C	32972
620-17406-17 - ME	4R Day 30, 1x	Total/NA	Solid	8260C	32972
620-17406-21 - ME	EA6/1R Day 30b, 0.5x	Total/NA	Solid	8260C	32972
620-17406-22 - ME	EA6/1R Day 30b, 1x	Total/NA	Solid	8260C	32972
620-17406-23 - ME	EA6/1R Day 30b, 2x	Total/NA	Solid	8260C	32972
620-17406-25 - ME	EA6/1R Day 30b, ctrl	Total/NA	Solid	8260C	32972
MB 620-32972/3-A	Method Blank	Total/NA	Solid	8260C	32972
LCS 620-32972/1-A	Lab Control Sample	Total/NA	Solid	8260C	32972
LCSD 620-32972/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	32972

Prep Batch: 32972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11 - ME	EA6/1R Day 30, 0.5x	Total/NA	Solid	5035	
620-17406-12 - ME	EA6/1R Day 30, 1x	Total/NA	Solid	5035	
620-17406-13 - ME	EA6/1R Day 30, 2x	Total/NA	Solid	5035	
620-17406-14 - ME	EA6/1R Day 30, 3x	Total/NA	Solid	5035	
620-17406-15 - DL	EA6/1R Day 30, ctrl	Total/NA	Solid	5035	
620-17406-15 - ME	EA6/1R Day 30, ctrl	Total/NA	Solid	5035	
620-17406-16 - ME	4R Day 30, 0.5x	Total/NA	Solid	5035	
620-17406-17 - ME	4R Day 30, 1x	Total/NA	Solid	5035	
620-17406-21 - ME	EA6/1R Day 30b, 0.5x	Total/NA	Solid	5035	

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

GC/MS VOA (Continued)

Prep Batch: 32972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-22 - ME	EA6/1R Day 30b, 1x	Total/NA	Solid	5035	
620-17406-23 - ME	EA6/1R Day 30b, 2x	Total/NA	Solid	5035	
620-17406-25 - ME	EA6/1R Day 30b, ctrl	Total/NA	Solid	5035	
620-17406-26 - ME	4R Day 30b, 0.5x	Total/NA	Solid	5035	
620-17406-27 - ME	4R Day 30b, 1x	Total/NA	Solid	5035	
MB 620-32972/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-32972/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-32972/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 32993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-15 - DL	EA6/1R Day 30, ctrl	Total/NA	Solid	8260C	32972
620-17406-26 - ME	4R Day 30b, 0.5x	Total/NA	Solid	8260C	32972
620-17406-27 - ME	4R Day 30b, 1x	Total/NA	Solid	8260C	32972
620-17406-29 - ME	4R Day 30b, 3x	Total/NA	Solid	8260C	33016
MB 620-33016/3-A	Method Blank	Total/NA	Solid	8260C	33016
LCS 620-33016/1-A	Lab Control Sample	Total/NA	Solid	8260C	33016
LCSD 620-33016/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33016

Prep Batch: 33016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-29 - ME	4R Day 30b, 3x	Total/NA	Solid	5035	
MB 620-33016/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 32773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-11	EA6/1R Day 30, 0.5x	Total/NA	Solid	Moisture	
620-17406-12	EA6/1R Day 30, 1x	Total/NA	Solid	Moisture	
620-17406-13	EA6/1R Day 30, 2x	Total/NA	Solid	Moisture	
620-17406-14	EA6/1R Day 30, 3x	Total/NA	Solid	Moisture	
620-17406-15	EA6/1R Day 30, ctrl	Total/NA	Solid	Moisture	
620-17406-16	4R Day 30, 0.5x	Total/NA	Solid	Moisture	
620-17406-17	4R Day 30, 1x	Total/NA	Solid	Moisture	
620-17406-18	4R Day 30, 2x	Total/NA	Solid	Moisture	
620-17406-19	4R Day 30, 3x	Total/NA	Solid	Moisture	
620-17406-20	4R Day 30, ctrl	Total/NA	Solid	Moisture	
620-17406-21	EA6/1R Day 30b, 0.5x	Total/NA	Solid	Moisture	
620-17406-22	EA6/1R Day 30b, 1x	Total/NA	Solid	Moisture	
620-17406-23	EA6/1R Day 30b, 2x	Total/NA	Solid	Moisture	
620-17406-24	EA6/1R Day 30b, 3x	Total/NA	Solid	Moisture	
620-17406-25	EA6/1R Day 30b, ctrl	Total/NA	Solid	Moisture	
620-17406-26	4R Day 30b, 0.5x	Total/NA	Solid	Moisture	
620-17406-27	4R Day 30b, 1x	Total/NA	Solid	Moisture	
620-17406-28	4R Day 30b, 2x	Total/NA	Solid	Moisture	
620-17406-29	4R Day 30b, 3x	Total/NA	Solid	Moisture	
620-17406-30	4R Day 30b, ctrl	Total/NA	Solid	Moisture	
MB 620-32773/1	Method Blank	Total/NA	Solid	Moisture	

Eurofins New England

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

General Chemistry (Continued)

Analysis Batch: 32773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17406-19 DU	4R Day 30, 3x	Total/NA	Solid	Moisture	

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

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 0.5x

Date Collected: 03/13/24 08:00

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32793	CLR	EET NE	03/18/24 19:31
Total/NA	Analysis	8260C	DL	50	32894	CLR	EET NE	03/20/24 15:56

Client Sample ID: EA6/1R Day 30, 1x

Date Collected: 03/13/24 08:10

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32793	CLR	EET NE	03/18/24 19:58
Total/NA	Analysis	8260C	DL	10	32894	CLR	EET NE	03/20/24 16:22

Client Sample ID: EA6/1R Day 30, 2x

Date Collected: 03/13/24 08:20

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32793	CLR	EET NE	03/18/24 20:24

Client Sample ID: EA6/1R Day 30, 3x

Date Collected: 03/13/24 08:30

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32793	CLR	EET NE	03/18/24 19:03
Total/NA	Analysis	8260C	DL	5	32894	CLR	EET NE	03/20/24 15:30

Client Sample ID: EA6/1R Day 30, ctrl

Date Collected: 03/13/24 08:40

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32793	CLR	EET NE	03/18/24 18:37
Total/NA	Analysis	8260C	DL2	100	32894	CLR	EET NE	03/20/24 16:47
Total/NA	Analysis	8260C	DL	10	32894	CLR	EET NE	03/20/24 17:13

Client Sample ID: 4R Day 30, 0.5x

Date Collected: 03/13/24 08:50

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32936	CLR	EET NE	03/21/24 04:13

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Date Collected: 03/13/24 09:00

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32936	CLR	EET NE	03/21/24 04:38

Client Sample ID: 4R Day 30, 2x

Date Collected: 03/13/24 09:10

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32936	CLR	EET NE	03/21/24 05:04

Client Sample ID: 4R Day 30, 3x

Date Collected: 03/13/24 09:20

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	32936	CLR	EET NE	03/21/24 05:29

Client Sample ID: 4R Day 30,ctrl

Date Collected: 03/13/24 09:30

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	32936	CLR	EET NE	03/21/24 03:47

Client Sample ID: EA6/1R Day 30, 0.5x

Date Collected: 03/13/24 08:02

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30, 0.5x

Date Collected: 03/13/24 08:02

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-11

Matrix: Solid

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 15:19
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 12:28

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 1x

Date Collected: 03/13/24 08:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30, 1x

Date Collected: 03/13/24 08:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-12

Matrix: Solid

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 15:44
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 12:53

Client Sample ID: EA6/1R Day 30, 2x

Date Collected: 03/13/24 08:22

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30, 2x

Date Collected: 03/13/24 08:22

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-13

Matrix: Solid

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 16:10
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 13:19

Client Sample ID: EA6/1R Day 30, 3x

Date Collected: 03/13/24 08:32

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30, 3x

Date Collected: 03/13/24 08:32

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-14

Matrix: Solid

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 16:37

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30, 3x

Lab Sample ID: 620-17406-14

Date Collected: 03/13/24 08:32

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 13:45

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30, ctrl

Lab Sample ID: 620-17406-15

Date Collected: 03/13/24 08:42

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 17:02
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 15:28
Total/NA	Prep	5035	DL		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	DL	2	32993	CLR	EET NE	03/22/24 13:48

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30, 0.5x

Lab Sample ID: 620-17406-16

Date Collected: 03/13/24 08:52

Matrix: Solid

Date Received: 03/14/24 17:41

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 17:27
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 15:54

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, 1x

Date Collected: 03/13/24 09:02

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30, 1x

Date Collected: 03/13/24 09:02

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-17

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 17:53
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 16:19

Client Sample ID: 4R Day 30, 2x

Date Collected: 03/13/24 09:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30, 2x

Date Collected: 03/13/24 09:12

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-18

Matrix: Solid

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 18:19

Client Sample ID: 4R Day 30, 3x

Date Collected: 03/13/24 09:22

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30, 3x

Date Collected: 03/13/24 09:22

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-19

Matrix: Solid

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 18:44

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30, ctrl

Date Collected: 03/13/24 09:32

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30, ctrl

Date Collected: 03/13/24 09:32

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-20

Matrix: Solid

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 19:10

Client Sample ID: EA6/1R Day 30b, 0.5x

Date Collected: 03/13/24 08:04

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30b, 0.5x

Date Collected: 03/13/24 08:04

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-21

Matrix: Solid

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 19:36
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 16:44

Client Sample ID: EA6/1R Day 30b, 1x

Date Collected: 03/13/24 08:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30b, 1x

Date Collected: 03/13/24 08:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-22

Matrix: Solid

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 20:02
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 17:55

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: EA6/1R Day 30b, 2x

Date Collected: 03/13/24 08:24

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30b, 2x

Date Collected: 03/13/24 08:24

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-23

Matrix: Solid

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 20:27
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 18:21

Client Sample ID: EA6/1R Day 30b, 3x

Date Collected: 03/13/24 08:34

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30b, 3x

Date Collected: 03/13/24 08:34

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-24

Matrix: Solid

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 20:52

Client Sample ID: EA6/1R Day 30b, ctrl

Date Collected: 03/13/24 08:44

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: EA6/1R Day 30b, ctrl

Date Collected: 03/13/24 08:44

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-25

Matrix: Solid

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32868	CLR	EET NE	03/19/24 12:54
Total/NA	Analysis	8260C		1	32847	CLR	EET NE	03/19/24 21:18
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32941	CLR	EET NE	03/21/24 18:47

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 0.5x

Date Collected: 03/13/24 08:54

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30b, 0.5x

Date Collected: 03/13/24 08:54

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-26

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32993	CLR	EET NE	03/22/24 12:53

Client Sample ID: 4R Day 30b, 1x

Date Collected: 03/13/24 09:04

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30b, 1x

Date Collected: 03/13/24 09:04

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-27

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32902	CLR	EET NE	03/20/24 09:39
Total/NA	Analysis	8260C		1	32903	CLR	EET NE	03/20/24 13:58
Total/NA	Prep	5035	ME		32972	CLR	EET NE	03/21/24 09:00
Total/NA	Analysis	8260C	ME	1	32993	CLR	EET NE	03/22/24 13:18

Client Sample ID: 4R Day 30b, 2x

Date Collected: 03/13/24 09:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30b, 2x

Date Collected: 03/13/24 09:14

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-28

Matrix: Solid

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32902	CLR	EET NE	03/20/24 09:39
Total/NA	Analysis	8260C		1	32903	CLR	EET NE	03/20/24 14:23

Eurofins New England

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Client Sample ID: 4R Day 30b, 3x

Date Collected: 03/13/24 09:24

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30b, 3x

Date Collected: 03/13/24 09:24

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-29

Matrix: Solid

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		33016	CLR	EET NE	03/22/24 09:00
Total/NA	Analysis	8260C	ME	1	32993	CLR	EET NE	03/22/24 14:13

Client Sample ID: 4R Day 30b, ctrl

Date Collected: 03/13/24 09:34

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32773	ODO	EET NE	03/15/24 12:18

Client Sample ID: 4R Day 30b, ctrl

Date Collected: 03/13/24 09:34

Date Received: 03/14/24 17:41

Lab Sample ID: 620-17406-30

Matrix: Solid

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32754	KFS	EET NE	03/14/24 21:26
Total/NA	Prep	5035			32902	CLR	EET NE	03/20/24 09:39
Total/NA	Analysis	8260C		1	32903	CLR	EET NE	03/20/24 15:13

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	Tetrachloroethene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET NE
Moisture	Percent Moisture	EPA	EET NE
5030C	Purge and Trap	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-17406-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17406-1	EA6/1R Day 30, 0.5x	Water	03/13/24 08:00	03/14/24 17:41
620-17406-2	EA6/1R Day 30, 1x	Water	03/13/24 08:10	03/14/24 17:41
620-17406-3	EA6/1R Day 30, 2x	Water	03/13/24 08:20	03/14/24 17:41
620-17406-4	EA6/1R Day 30, 3x	Water	03/13/24 08:30	03/14/24 17:41
620-17406-5	EA6/1R Day 30, ctrl	Water	03/13/24 08:40	03/14/24 17:41
620-17406-6	4R Day 30, 0.5x	Water	03/13/24 08:50	03/14/24 17:41
620-17406-7	4R Day 30, 1x	Water	03/13/24 09:00	03/14/24 17:41
620-17406-8	4R Day 30, 2x	Water	03/13/24 09:10	03/14/24 17:41
620-17406-9	4R Day 30, 3x	Water	03/13/24 09:20	03/14/24 17:41
620-17406-10	4R Day 30, ctrl	Water	03/13/24 09:30	03/14/24 17:41
620-17406-11	EA6/1R Day 30, 0.5x	Solid	03/13/24 08:02	03/14/24 17:41
620-17406-12	EA6/1R Day 30, 1x	Solid	03/13/24 08:12	03/14/24 17:41
620-17406-13	EA6/1R Day 30, 2x	Solid	03/13/24 08:22	03/14/24 17:41
620-17406-14	EA6/1R Day 30, 3x	Solid	03/13/24 08:32	03/14/24 17:41
620-17406-15	EA6/1R Day 30, ctrl	Solid	03/13/24 08:42	03/14/24 17:41
620-17406-16	4R Day 30, 0.5x	Solid	03/13/24 08:52	03/14/24 17:41
620-17406-17	4R Day 30, 1x	Solid	03/13/24 09:02	03/14/24 17:41
620-17406-18	4R Day 30, 2x	Solid	03/13/24 09:12	03/14/24 17:41
620-17406-19	4R Day 30, 3x	Solid	03/13/24 09:22	03/14/24 17:41
620-17406-20	4R Day 30, ctrl	Solid	03/13/24 09:32	03/14/24 17:41
620-17406-21	EA6/1R Day 30b, 0.5x	Solid	03/13/24 08:04	03/14/24 17:41
620-17406-22	EA6/1R Day 30b, 1x	Solid	03/13/24 08:14	03/14/24 17:41
620-17406-23	EA6/1R Day 30b, 2x	Solid	03/13/24 08:24	03/14/24 17:41
620-17406-24	EA6/1R Day 30b, 3x	Solid	03/13/24 08:34	03/14/24 17:41
620-17406-25	EA6/1R Day 30b, ctrl	Solid	03/13/24 08:44	03/14/24 17:41
620-17406-26	4R Day 30b, 0.5x	Solid	03/13/24 08:54	03/14/24 17:41
620-17406-27	4R Day 30b, 1x	Solid	03/13/24 09:04	03/14/24 17:41
620-17406-28	4R Day 30b, 2x	Solid	03/13/24 09:14	03/14/24 17:41
620-17406-29	4R Day 30b, 3x	Solid	03/13/24 09:24	03/14/24 17:41
620-17406-30	4R Day 30b, ctrl	Solid	03/13/24 09:34	03/14/24 17:41



620-17406 Chain of Custody

Testing

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Report To Laurel Crawford (lcrawford@loureiro.com)

Loureiro Engineering Associates, Inc.

112 Corporate Drive, Unit 2

Portsmouth, NH 03801

Telephone # 603-778-1100

Project Mgr Laurel Crawford

Invoice To Accounts Payable (accounts payable@loureiro.com)

Loureiro Engineering Associates, Inc

100 Northwest Drive

Plainville, CT 06062

P O No 1260 Quote # _____

Project No 026EE3 01

Site Name Zip Zip Mini Mart Site

Location Portsmouth State NH

Sampler(s) Laurel Crawford

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	Sample ID:	Date:	Time:	Type	C=Composite	
					G= Grab	
-1	EA6/1R Day 30, 0 5x	3/13/2024	8 00 AM	GW	1	
-2	EA6/1R Day 30, 1x	3/13/2024	8 10 AM	GW	2	
-3	EA6/1R Day 30, 2x	3/13/2024	8 20 AM	GW	1	
-4	EA6/1R Day 30, 3x	3/13/2024	8 30 AM	GW	2	
-5	EA6/1R Day 30, ctrl	3/13/2024	8 40 AM	GW	2	
-6	4R Day 30, 0 5x	3/13/2024	8 50 AM	GW	1	
-7	4R Day 30, 1x	3/13/2024	9 00 AM	GW	1	
-8	4R Day 30, 2x	3/13/2024	9 10 AM	GW	1	
-9	4R Day 30, 3x	3/13/2024	9 20 AM	GW	1	
-10	4R Day 30, ctrl	3/13/2024	9 30 AM	GW	2	

Relinquished by:

Received by:

Date:

Time:

Temp °C

Laurel Crawford

[Signature]

3/14/24 17:24

Observed 0.4
Corrected 0.6

E-mail to lcrawford@loureiro.com, acdunne@loureiro.com

E-mail to _____

3/25/2024

Sample Shipping Address: 126 Myron Street
Lab Address: 646 Camp Ave • North Kingstown, RI 02852

West Springfield, MA 01089 • 413-738-5018

Condition upon receipt: ☒ Iced ☐ Frozen ☐ Broken

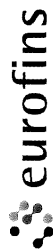
Custody Seals: ☐ Present ☐ Intact ☐ Broken

Refrigerated ☒ DI VOA Frozen ☐ Soil Jar Frozen

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Environment Testing
New England

CHAIN OF CUSTODY RECORD

Special Handling:

☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 2 of 3

Report To Laurel Crawford (lcrawford@loureiro.com)
Loureiro Engineering Associates, Inc
112 Corporate Drive, Unit 2
Portsmouth, NH 03801
Telephone # 603-778-1100
Project Mgr Laurel Crawford

Invoice To Accounts Payable (accountspayable@loureiro.com)
Loureiro Engineering Associates, Inc
100 Northwest Drive
Plainville, CT 06062
P O No 1260 Quote # _____

Project No 026EE3 01
Site Name Zip Mini Mart Site
Location Portsmouth State NH
Sampler(s) Laurel Crawford

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= terracore kit 12= _____

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA* ☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other _____
State-specific reporting standards

X1= _____ X2= _____ X3= _____

Check if chlorinated

Lab ID:	Sample ID:	Date:	Time:	Type	C=Composite		
					G= Grab	C= Composite	
-11	EA6/1R Day 30, 0 5x	3/13/2024	8 02 AM	SO	3	3	SO
-12	EA6/1R Day 30, 1x	3/13/2024	8 12 AM	SO	3	3	SO
-13	EA6/1R Day 30, 2x	3/13/2024	8 22 AM	SO	3	3	SO
-14	EA6/1R Day 30, 3x	3/13/2024	8 32 AM	SO	3	3	SO
-15	EA6/1R Day 30, ctrl	3/13/2024	8 42 AM	SO	3	3	SO
-16	4R Day 30, 0 5x	3/13/2024	8 52 AM	SO	3	3	SO
-17	4R Day 30, 1x	3/13/2024	9 02 AM	SO	3	3	SO
-18	4R Day 30, 2x	3/13/2024	9 12 AM	SO	3	3	SO
-19	4R Day 30, 3x	3/13/2024	9 22 AM	SO	3	3	SO
-20	4R Day 30, ctrl	3/13/2024	9 32 AM	SO	3	3	SO

Relinquished by:

Received by:

Temp °C

EDD format

☐ E-mail to lcrawford@loureiro.com, acdunne@loureiro.com

3/25/2024

Sample Shipping Address: 126 Myron Street West Springfield, MA 01089 • 413-788-3016
Lab Address: 646 Camp Ave • North Kingstown, RI 02852

Condition upon receipt: ☐ Custody Seals ☐ Present ☐ Intact ☐ Broken
☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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eurofins

Environment Testing
New England

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Report To <u>Laurel Crawford (lcrawford@loureiro.com)</u> <u>Loureiro Engineering Associates, Inc</u> <u>112 Corporate Drive, Unit 2</u> <u>Portsmouth, NH 03801</u> Telephone # <u>603-778-1100</u> Project Mgr <u>Laurel Crawford</u>	Invoice To <u>Accounts Payable (accounts payable@loureiro.com)</u> <u>Loureiro Engineering Associates, Inc</u> <u>100 Northwest Drive</u> <u>Plainville, CT 06062</u> P O No <u>1260</u> Quote # _____	Project No <u>026EE3 01</u> Site Name <u>Zip Zip Mini Mart Site</u> Location <u>Portsmouth</u> State <u>NH</u> Sampler(s) <u>Laurel Crawford</u>

F=Field Filtered 7=CH3OH 8=NaHSO4 9=Deionized Water 10=H3PO4	1=Na2S2O4 2=HCl 3=H2SO4 4=HNO3 5=NaOH 6=Ascorbic Acid 11= terracore kit 12=	6-Ascorbic Acid 12=

DW=Drinking Water SO=Soil SI=Sludge A=Indoor/Ambient Air SG=Soil Gas	GW=Groundwater SW=Surface Water WW=Waste Water	Matrix

Page 152 of 153

G= Grab		C=Compsite	
Lab ID:	Sample ID:	Date:	Time:
-21	EA6/1R Day 30b, 0 5x	3/13/2024	8 04 AM
-22	EA6/1R Day 30b, 1x	3/13/2024	8 14 AM
-23	EA6/1R Day 30b, 2x	3/13/2024	8 24 AM
-24	EA6/1R Day 30b, 3x	3/13/2024	8 34 AM
-25	EA6/1R Day 30b, ctrl	3/13/2024	8 44 AM
-26	4R Day 30b, 0 5x	3/13/2024	8 54 AM
-27	4R Day 30b, 1x	3/13/2024	9 04 AM
-28	4R Day 30b, 2x	3/13/2024	9 14 AM
-29	4R Day 30b, 3x	3/13/2024	9 24 AM
-30	4R Day 30b ctrl	3/13/2024	9 34 AM

Relinquished by: 	Received by: 	Date: 3/14/24 Time: 1424 Temp °C: 0.4
		Date: 3/14/24 Time: 1741 Temp °C: -0.5
		Date: _____ Time: _____ Temp °C: _____

Condition upon receipt: ☐ Present ☐ Intact ☐ Broken
☐ Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample Shipping Address: 126 Myron Street, West Springfield, MA 01089 • 413-781-3018
Lab Address: 646 Camp Ave, North Kingstown, RI 02852
www.EurofinsUS.com/Spectrum

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-17406-1

Login Number: 17406

List Number: 1

Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

Generated 4/23/2024 11:49:06 AM

JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-18006-1

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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4/23/2024 11:49:06 AM

Authorized for release by
Becky Mason, Project Manager II
Becky.Mason@et.eurofinsus.com
(413)572-4000

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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Job ID: 620-18006-1

Eurofins Rhode Island

Job Narrative 620-18006-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/15/2024 4:42 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 4.0°C.

GC/MS VOA

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte (biased high): Acrylonitrile.
(CCVIS 620-33953/3)

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 620-33953 recovered outside control limits for the following analyte: Ethanol.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-33953 recovered outside control limits for the following analyte: 4-Methyl-2-pentanone (MIBK), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-33953 recovered outside in-house control limits for the following analytes: Benzene, tert-Butylbenzene, 1,1-Dichloroethane, 1,1-Dichloroethene, Methylene Chloride and Toluene. These analytes were biased high in the LCS but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-33953 recovered outside control limits for the following analytes: Benzene, 1,1-Dichloroethene and Toluene. These analytes were biased high in the LCSD but recovered within 70-130%. According to 8260C requirements, analytes are allowed to recover outside in-house control limits as long as recovery is within method limit of 70-130%; therefore, the data have been reported.

Method 8260C: The following samples were diluted due to the nature of the sample matrix (odor, yellow tint, and excessive foaming): EA6/1R Day 60, 0.5x (620-18006-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-33961 recovered outside control limits for the following analyte: 4-Methyl-2-pentanone (MIBK), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): trans-1,4-Dichloro-2-butene, 2-Methyl-2-propanol, Acrylonitrile, and Styrene.
(CCVIS 620-33961/3)

Method 8260C: The CCV for analytical batch 620-33961 recovered outside control limits for the following analyte: 2-Methyl-2-

Eurofins Rhode Island

Case Narrative

Client: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Job ID: 620-18006-1 (Continued)

Eurofins Rhode Island

propanol, which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-33912 and analytical batch 620-33913 recovered outside control limits for the following analytes: Methylene Chloride. This analyte was biased high in the LCS and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): Acrylonitrile, trans-1,4-Dichloro-2-butene, Vinyl chloride, trans-1,3-Dichloropropene, and Methylene chloride. (CCVIS 620-33913/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-33852 and analytical batch 620-33829 recovered outside control limits for the following analytes: 2-Butanone (MEK) and 2-Hexanone (MBK), which have been identified as poor performing analytes when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-33829 exhibited % difference of > 20% for the following analytes: 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene; 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, the LCS is acceptable if it meets CCV acceptance criteria.

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

General Chemistry

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

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	330		200	ug/L	20		8260C	Total/NA
Benzene	290	+	20	ug/L	20		8260C	Total/NA
Carbon disulfide	78		40	ug/L	20		8260C	Total/NA
Ethylbenzene	49		20	ug/L	20		8260C	Total/NA
Methyl tert-butyl ether	38		20	ug/L	20		8260C	Total/NA
Toluene	200	+	20	ug/L	20		8260C	Total/NA
Trichloroethene	25		20	ug/L	20		8260C	Total/NA
m,p-Xylene	120		20	ug/L	20		8260C	Total/NA
o-Xylene	100		20	ug/L	20		8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	54	+	1.0	ug/L	1		8260C	Total/NA
Bromomethane	3.0		2.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	60		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	19		2.0	ug/L	1		8260C	Total/NA
Chloromethane	28		2.0	ug/L	1		8260C	Total/NA
Ethylbenzene	13		1.0	ug/L	1		8260C	Total/NA
2-Hexanone (MBK)	2.4		2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	17		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.8		1.0	ug/L	1		8260C	Total/NA
Toluene	45	+	1.0	ug/L	1		8260C	Total/NA
Trichloroethene	2.4		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	28		1.0	ug/L	1		8260C	Total/NA
o-Xylene	27		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	26		10	ug/L	1		8260C	Total/NA
Acetone - DL	250		100	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30	+	1.0	ug/L	1		8260C	Total/NA
Bromomethane	15		2.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	99		2.0	ug/L	1		8260C	Total/NA
Carbon disulfide	3.8		2.0	ug/L	1		8260C	Total/NA
Ethylbenzene	6.7		1.0	ug/L	1		8260C	Total/NA
2-Hexanone (MBK)	3.5		2.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	4.7		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.6		1.0	ug/L	1		8260C	Total/NA
Toluene	18	+	1.0	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	9.1		1.0	ug/L	1		8260C	Total/NA
o-Xylene	9.4		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	37		10	ug/L	1		8260C	Total/NA
Acetone - DL	420		100	ug/L	10		8260C	Total/NA
Chloromethane - DL	120		20	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	10	+	1.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x (Continued)

Lab Sample ID: 620-18006-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	10		2.0	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	48		2.0	ug/L	1		8260C	Total/NA
Ethylbenzene	1.8		1.0	ug/L	1		8260C	Total/NA
2-Hexanone (MBK)	3.1		2.0	ug/L	1		8260C	Total/NA
Toluene	6.4	*+	1.0	ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	1.7		1.0	ug/L	1		8260C	Total/NA
o-Xylene	2.0		1.0	ug/L	1		8260C	Total/NA
tert-Butanol	13		10	ug/L	1		8260C	Total/NA
Acetone - DL	280		100	ug/L	10		8260C	Total/NA
Chloromethane - DL	220		20	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		10	ug/L	1		8260C	Total/NA
Ethylbenzene	1.2		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	8.5		1.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.7		1.0	ug/L	1		8260C	Total/NA
Toluene	1.8	*+	1.0	ug/L	1		8260C	Total/NA
Trichloroethene	1.7		1.0	ug/L	1		8260C	Total/NA
m,p-Xylene	8.6		1.0	ug/L	1		8260C	Total/NA
o-Xylene	15		1.0	ug/L	1		8260C	Total/NA
Benzene - DL	110		10	ug/L	10		8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		36	ug/Kg	1	✱	8260C	Total/NA
Benzene	110		3.6	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	55		7.1	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	63		3.6	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	8.5		3.6	ug/Kg	1	✱	8260C	Total/NA
Toluene	130		3.6	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	160	E	3.6	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	100		3.6	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	350		72	ug/Kg	2	✱	8260C	Total/NA
Ethylbenzene - ME	590		72	ug/Kg	2	✱	8260C	Total/NA
Naphthalene - ME	120		72	ug/Kg	2	✱	8260C	Total/NA
Toluene - ME	740		72	ug/Kg	2	✱	8260C	Total/NA
m,p-Xylene - ME	1600		72	ug/Kg	2	✱	8260C	Total/NA
o-Xylene - ME	1000		72	ug/Kg	2	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		29	ug/Kg	1	✱	8260C	Total/NA
Benzene	41		2.9	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	24		5.7	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	37		2.9	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	6.9		2.9	ug/Kg	1	✱	8260C	Total/NA
Toluene	56		2.9	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 1x (Continued)

Lab Sample ID: 620-18006-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	75		2.9	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	54		2.9	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	55		34	ug/Kg	1	✱	8260C	Total/NA
Benzene	42		3.4	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	11	*-	6.7	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	24		6.7	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	28		3.4	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	6.3		3.4	ug/Kg	1	✱	8260C	Total/NA
Toluene	49		3.4	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	42		3.4	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	35		3.4	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		35	ug/Kg	1	✱	8260C	Total/NA
Benzene	21		3.5	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	16	*-	7.1	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	83		7.1	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	15		3.5	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	4.2		3.5	ug/Kg	1	✱	8260C	Total/NA
Toluene	21		3.5	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	19		3.5	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	18		3.5	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-10

No Detections.

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		3.6	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	76		7.1	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	67		3.6	ug/Kg	1	✱	8260C	Total/NA
Methyl tert-butyl ether	4.0		3.6	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	8.9		3.6	ug/Kg	1	✱	8260C	Total/NA
Toluene	130		3.6	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	170	E	3.6	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	110		3.6	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	270		65	ug/Kg	2	✱	8260C	Total/NA
Ethylbenzene - ME	520		65	ug/Kg	2	✱	8260C	Total/NA
Naphthalene - ME	68		65	ug/Kg	2	✱	8260C	Total/NA
Toluene - ME	580		65	ug/Kg	2	✱	8260C	Total/NA
1,2,4-Trimethylbenzene - ME	120		65	ug/Kg	2	✱	8260C	Total/NA
m,p-Xylene - ME	1600		65	ug/Kg	2	✱	8260C	Total/NA
o-Xylene - ME	920		65	ug/Kg	2	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 1x

Lab Sample ID: 620-18006-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	47		3.5	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	27		7.0	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	36		3.5	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	6.9		3.5	ug/Kg	1	✱	8260C	Total/NA
Toluene	57		3.5	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	72		3.5	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	52		3.5	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60b, 2x

Lab Sample ID: 620-18006-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	65		39	ug/Kg	1	✱	8260C	Total/NA
Benzene	29		3.9	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	11	*-	7.9	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	31		7.9	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	18		3.9	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	4.3		3.9	ug/Kg	1	✱	8260C	Total/NA
Toluene	29		3.9	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	25		3.9	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	21		3.9	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		29	ug/Kg	1	✱	8260C	Total/NA
Benzene	18		2.9	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	14	*-	5.9	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	55		5.9	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	14		2.9	ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	4.0		2.9	ug/Kg	1	✱	8260C	Total/NA
Toluene	19		2.9	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	18		2.9	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	16		2.9	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-1

Date Collected: 04/12/24 08:00

Matrix: Water

Date Received: 04/15/24 16:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		20	ug/L			04/20/24 22:22	20
Acetone	330		200	ug/L			04/20/24 22:22	20
Acrylonitrile	ND		20	ug/L			04/20/24 22:22	20
Benzene	290	*+	20	ug/L			04/20/24 22:22	20
Bromobenzene	ND		20	ug/L			04/20/24 22:22	20
Bromochloromethane	ND		20	ug/L			04/20/24 22:22	20
Bromodichloromethane	ND		10	ug/L			04/20/24 22:22	20
Bromoform	ND		20	ug/L			04/20/24 22:22	20
Bromomethane	ND		40	ug/L			04/20/24 22:22	20
2-Butanone (MEK)	ND		40	ug/L			04/20/24 22:22	20
n-Butylbenzene	ND		20	ug/L			04/20/24 22:22	20
sec-Butylbenzene	ND		20	ug/L			04/20/24 22:22	20
tert-Butylbenzene	ND	*+	20	ug/L			04/20/24 22:22	20
Carbon disulfide	78		40	ug/L			04/20/24 22:22	20
Carbon tetrachloride	ND		20	ug/L			04/20/24 22:22	20
Chlorobenzene	ND		20	ug/L			04/20/24 22:22	20
Chloroethane	ND		40	ug/L			04/20/24 22:22	20
Chloroform	ND		20	ug/L			04/20/24 22:22	20
Chloromethane	ND		40	ug/L			04/20/24 22:22	20
2-Chlorotoluene	ND		20	ug/L			04/20/24 22:22	20
4-Chlorotoluene	ND		20	ug/L			04/20/24 22:22	20
1,2-Dibromo-3-Chloropropane	ND		40	ug/L			04/20/24 22:22	20
Dibromochloromethane	ND		10	ug/L			04/20/24 22:22	20
1,2-Dibromoethane (EDB)	ND		10	ug/L			04/20/24 22:22	20
Dibromomethane	ND		20	ug/L			04/20/24 22:22	20
1,2-Dichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
1,3-Dichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
1,4-Dichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
Dichlorodifluoromethane (Freon 12)	ND		40	ug/L			04/20/24 22:22	20
1,1-Dichloroethane	ND	*+	20	ug/L			04/20/24 22:22	20
1,2-Dichloroethane	ND		20	ug/L			04/20/24 22:22	20
1,1-Dichloroethene	ND	*+	20	ug/L			04/20/24 22:22	20
cis-1,2-Dichloroethene	ND		20	ug/L			04/20/24 22:22	20
trans-1,2-Dichloroethene	ND		20	ug/L			04/20/24 22:22	20
1,2-Dichloropropane	ND		20	ug/L			04/20/24 22:22	20
1,3-Dichloropropane	ND		20	ug/L			04/20/24 22:22	20
2,2-Dichloropropane	ND		20	ug/L			04/20/24 22:22	20
1,1-Dichloropropene	ND		20	ug/L			04/20/24 22:22	20
cis-1,3-Dichloropropene	ND		10	ug/L			04/20/24 22:22	20
trans-1,3-Dichloropropene	ND		10	ug/L			04/20/24 22:22	20
Ethylbenzene	49		20	ug/L			04/20/24 22:22	20
Hexachlorobutadiene	ND		20	ug/L			04/20/24 22:22	20
2-Hexanone (MBK)	ND		40	ug/L			04/20/24 22:22	20
Isopropylbenzene	ND		20	ug/L			04/20/24 22:22	20
4-Isopropyltoluene	ND		20	ug/L			04/20/24 22:22	20
Methyl tert-butyl ether	38		20	ug/L			04/20/24 22:22	20
4-Methyl-2-pentanone (MIBK)	ND	*+	40	ug/L			04/20/24 22:22	20
Methylene Chloride	ND	*+	40	ug/L			04/20/24 22:22	20
Naphthalene	ND		40	ug/L			04/20/24 22:22	20

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-1

Date Collected: 04/12/24 08:00

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		20	ug/L			04/20/24 22:22	20
Styrene	ND		20	ug/L			04/20/24 22:22	20
1,1,1,2-Tetrachloroethane	ND		20	ug/L			04/20/24 22:22	20
1,1,2,2-Tetrachloroethane	ND		10	ug/L			04/20/24 22:22	20
Tetrachloroethene	ND		20	ug/L			04/20/24 22:22	20
Toluene	200	*+	20	ug/L			04/20/24 22:22	20
1,2,3-Trichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
1,2,4-Trichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
1,3,5-Trichlorobenzene	ND		20	ug/L			04/20/24 22:22	20
1,1,1-Trichloroethane	ND		20	ug/L			04/20/24 22:22	20
1,1,2-Trichloroethane	ND		20	ug/L			04/20/24 22:22	20
Trichloroethene	25		20	ug/L			04/20/24 22:22	20
Trichlorofluoromethane (Freon 11)	ND		20	ug/L			04/20/24 22:22	20
1,2,3-Trichloropropane	ND		20	ug/L			04/20/24 22:22	20
1,2,4-Trimethylbenzene	ND		20	ug/L			04/20/24 22:22	20
1,3,5-Trimethylbenzene	ND		20	ug/L			04/20/24 22:22	20
Vinyl chloride	ND		20	ug/L			04/20/24 22:22	20
m,p-Xylene	120		20	ug/L			04/20/24 22:22	20
o-Xylene	100		20	ug/L			04/20/24 22:22	20
Tetrahydrofuran	ND		40	ug/L			04/20/24 22:22	20
Ethyl ether	ND		20	ug/L			04/20/24 22:22	20
Tert-amyl methyl ether	ND		20	ug/L			04/20/24 22:22	20
Ethyl tert-butyl ether	ND		20	ug/L			04/20/24 22:22	20
di-Isopropyl ether	ND		20	ug/L			04/20/24 22:22	20
tert-Butanol	ND		200	ug/L			04/20/24 22:22	20
1,4-Dioxane	ND		1000	ug/L			04/20/24 22:22	20
trans-1,4-Dichloro-2-butene	ND		100	ug/L			04/20/24 22:22	20
Ethanol	ND	*1	4000	ug/L			04/20/24 22:22	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/20/24 22:22	20
Toluene-d8 (Surr)	102		70 - 130				04/20/24 22:22	20
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				04/20/24 22:22	20
Dibromofluoromethane (Surr)	100		70 - 130				04/20/24 22:22	20

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-2

Date Collected: 04/12/24 08:10

Matrix: Water

Date Received: 04/15/24 16:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/20/24 20:39	1
Acrylonitrile	ND		1.0	ug/L			04/20/24 20:39	1
Benzene	54	*+	1.0	ug/L			04/20/24 20:39	1
Bromobenzene	ND		1.0	ug/L			04/20/24 20:39	1
Bromochloromethane	ND		1.0	ug/L			04/20/24 20:39	1
Bromodichloromethane	ND		0.50	ug/L			04/20/24 20:39	1
Bromoform	ND		1.0	ug/L			04/20/24 20:39	1
Bromomethane	3.0		2.0	ug/L			04/20/24 20:39	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-2

Date Collected: 04/12/24 08:10

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	60		2.0	ug/L			04/20/24 20:39	1
n-Butylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
sec-Butylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
tert-Butylbenzene	ND	*+	1.0	ug/L			04/20/24 20:39	1
Carbon disulfide	19		2.0	ug/L			04/20/24 20:39	1
Carbon tetrachloride	ND		1.0	ug/L			04/20/24 20:39	1
Chlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
Chloroethane	ND		2.0	ug/L			04/20/24 20:39	1
Chloroform	ND		1.0	ug/L			04/20/24 20:39	1
Chloromethane	28		2.0	ug/L			04/20/24 20:39	1
2-Chlorotoluene	ND		1.0	ug/L			04/20/24 20:39	1
4-Chlorotoluene	ND		1.0	ug/L			04/20/24 20:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/20/24 20:39	1
Dibromochloromethane	ND		0.50	ug/L			04/20/24 20:39	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/20/24 20:39	1
Dibromomethane	ND		1.0	ug/L			04/20/24 20:39	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/20/24 20:39	1
1,1-Dichloroethane	ND	*+	1.0	ug/L			04/20/24 20:39	1
1,2-Dichloroethane	ND		1.0	ug/L			04/20/24 20:39	1
1,1-Dichloroethene	ND	*+	1.0	ug/L			04/20/24 20:39	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 20:39	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 20:39	1
1,2-Dichloropropane	ND		1.0	ug/L			04/20/24 20:39	1
1,3-Dichloropropane	ND		1.0	ug/L			04/20/24 20:39	1
2,2-Dichloropropane	ND		1.0	ug/L			04/20/24 20:39	1
1,1-Dichloropropene	ND		1.0	ug/L			04/20/24 20:39	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 20:39	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 20:39	1
Ethylbenzene	13		1.0	ug/L			04/20/24 20:39	1
Hexachlorobutadiene	ND		1.0	ug/L			04/20/24 20:39	1
2-Hexanone (MBK)	2.4		2.0	ug/L			04/20/24 20:39	1
Isopropylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
4-Isopropyltoluene	ND		1.0	ug/L			04/20/24 20:39	1
Methyl tert-butyl ether	17		1.0	ug/L			04/20/24 20:39	1
4-Methyl-2-pentanone (MIBK)	ND	*+	2.0	ug/L			04/20/24 20:39	1
Methylene Chloride	ND	*+	2.0	ug/L			04/20/24 20:39	1
Naphthalene	ND		2.0	ug/L			04/20/24 20:39	1
N-Propylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
Styrene	ND		1.0	ug/L			04/20/24 20:39	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/20/24 20:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/20/24 20:39	1
Tetrachloroethene	1.8		1.0	ug/L			04/20/24 20:39	1
Toluene	45	*+	1.0	ug/L			04/20/24 20:39	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/20/24 20:39	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-2

Date Collected: 04/12/24 08:10

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			04/20/24 20:39	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/20/24 20:39	1
Trichloroethene	2.4		1.0	ug/L			04/20/24 20:39	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/20/24 20:39	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/20/24 20:39	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/20/24 20:39	1
Vinyl chloride	ND		1.0	ug/L			04/20/24 20:39	1
m,p-Xylene	28		1.0	ug/L			04/20/24 20:39	1
o-Xylene	27		1.0	ug/L			04/20/24 20:39	1
Tetrahydrofuran	ND		2.0	ug/L			04/20/24 20:39	1
Ethyl ether	ND		1.0	ug/L			04/20/24 20:39	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/20/24 20:39	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/20/24 20:39	1
di-Isopropyl ether	ND		1.0	ug/L			04/20/24 20:39	1
tert-Butanol	26		10	ug/L			04/20/24 20:39	1
1,4-Dioxane	ND		50	ug/L			04/20/24 20:39	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/20/24 20:39	1
Ethanol	ND	*1	200	ug/L			04/20/24 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		04/20/24 20:39	1
Toluene-d8 (Surr)	103		70 - 130		04/20/24 20:39	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/20/24 20:39	1
Dibromofluoromethane (Surr)	101		70 - 130		04/20/24 20:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	250		100	ug/L			04/22/24 17:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		04/22/24 17:32	10
Toluene-d8 (Surr)	99		70 - 130		04/22/24 17:32	10
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/22/24 17:32	10
Dibromofluoromethane (Surr)	97		70 - 130		04/22/24 17:32	10

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-3

Date Collected: 04/12/24 08:20

Matrix: Water

Date Received: 04/15/24 16:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/20/24 21:04	1
Acrylonitrile	ND		1.0	ug/L			04/20/24 21:04	1
Benzene	30	*+	1.0	ug/L			04/20/24 21:04	1
Bromobenzene	ND		1.0	ug/L			04/20/24 21:04	1
Bromochloromethane	ND		1.0	ug/L			04/20/24 21:04	1
Bromodichloromethane	ND		0.50	ug/L			04/20/24 21:04	1
Bromoform	ND		1.0	ug/L			04/20/24 21:04	1
Bromomethane	15		2.0	ug/L			04/20/24 21:04	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-3

Date Collected: 04/12/24 08:20

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	99		2.0	ug/L			04/20/24 21:04	1
n-Butylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
sec-Butylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
tert-Butylbenzene	ND	*+	1.0	ug/L			04/20/24 21:04	1
Carbon disulfide	3.8		2.0	ug/L			04/20/24 21:04	1
Carbon tetrachloride	ND		1.0	ug/L			04/20/24 21:04	1
Chlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
Chloroethane	ND		2.0	ug/L			04/20/24 21:04	1
Chloroform	ND		1.0	ug/L			04/20/24 21:04	1
2-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:04	1
4-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/20/24 21:04	1
Dibromochloromethane	ND		0.50	ug/L			04/20/24 21:04	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/20/24 21:04	1
Dibromomethane	ND		1.0	ug/L			04/20/24 21:04	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/20/24 21:04	1
1,1-Dichloroethane	ND	*+	1.0	ug/L			04/20/24 21:04	1
1,2-Dichloroethane	ND		1.0	ug/L			04/20/24 21:04	1
1,1-Dichloroethene	ND	*+	1.0	ug/L			04/20/24 21:04	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:04	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:04	1
1,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:04	1
1,3-Dichloropropane	ND		1.0	ug/L			04/20/24 21:04	1
2,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:04	1
1,1-Dichloropropene	ND		1.0	ug/L			04/20/24 21:04	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:04	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:04	1
Ethylbenzene	6.7		1.0	ug/L			04/20/24 21:04	1
Hexachlorobutadiene	ND		1.0	ug/L			04/20/24 21:04	1
2-Hexanone (MBK)	3.5		2.0	ug/L			04/20/24 21:04	1
Isopropylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
4-Isopropyltoluene	ND		1.0	ug/L			04/20/24 21:04	1
Methyl tert-butyl ether	4.7		1.0	ug/L			04/20/24 21:04	1
4-Methyl-2-pentanone (MIBK)	ND	*+	2.0	ug/L			04/20/24 21:04	1
Methylene Chloride	ND	*+	2.0	ug/L			04/20/24 21:04	1
Naphthalene	ND		2.0	ug/L			04/20/24 21:04	1
N-Propylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
Styrene	ND		1.0	ug/L			04/20/24 21:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/20/24 21:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/20/24 21:04	1
Tetrachloroethene	1.6		1.0	ug/L			04/20/24 21:04	1
Toluene	18	*+	1.0	ug/L			04/20/24 21:04	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/20/24 21:04	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-3

Date Collected: 04/12/24 08:20

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	ug/L			04/20/24 21:04	1
Trichloroethene	2.2		1.0	ug/L			04/20/24 21:04	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/20/24 21:04	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/20/24 21:04	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:04	1
Vinyl chloride	ND		1.0	ug/L			04/20/24 21:04	1
m,p-Xylene	9.1		1.0	ug/L			04/20/24 21:04	1
o-Xylene	9.4		1.0	ug/L			04/20/24 21:04	1
Tetrahydrofuran	ND		2.0	ug/L			04/20/24 21:04	1
Ethyl ether	ND		1.0	ug/L			04/20/24 21:04	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/20/24 21:04	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/20/24 21:04	1
di-Isopropyl ether	ND		1.0	ug/L			04/20/24 21:04	1
tert-Butanol	37		10	ug/L			04/20/24 21:04	1
1,4-Dioxane	ND		50	ug/L			04/20/24 21:04	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/20/24 21:04	1
Ethanol	ND	*1	200	ug/L			04/20/24 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		04/20/24 21:04	1
Toluene-d8 (Surr)	105		70 - 130		04/20/24 21:04	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/20/24 21:04	1
Dibromofluoromethane (Surr)	100		70 - 130		04/20/24 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	420		100	ug/L			04/22/24 17:57	10
Chloromethane	120		20	ug/L			04/22/24 17:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		04/22/24 17:57	10
Toluene-d8 (Surr)	97		70 - 130		04/22/24 17:57	10
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/22/24 17:57	10
Dibromofluoromethane (Surr)	96		70 - 130		04/22/24 17:57	10

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-4

Date Collected: 04/12/24 08:30

Matrix: Water

Date Received: 04/15/24 16:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/20/24 21:30	1
Acrylonitrile	ND		1.0	ug/L			04/20/24 21:30	1
Benzene	10	*+	1.0	ug/L			04/20/24 21:30	1
Bromobenzene	ND		1.0	ug/L			04/20/24 21:30	1
Bromochloromethane	ND		1.0	ug/L			04/20/24 21:30	1
Bromodichloromethane	ND		0.50	ug/L			04/20/24 21:30	1
Bromoform	ND		1.0	ug/L			04/20/24 21:30	1
Bromomethane	10		2.0	ug/L			04/20/24 21:30	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-4

Date Collected: 04/12/24 08:30

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	48		2.0	ug/L			04/20/24 21:30	1
n-Butylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
sec-Butylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
tert-Butylbenzene	ND	*+	1.0	ug/L			04/20/24 21:30	1
Carbon disulfide	ND		2.0	ug/L			04/20/24 21:30	1
Carbon tetrachloride	ND		1.0	ug/L			04/20/24 21:30	1
Chlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
Chloroethane	ND		2.0	ug/L			04/20/24 21:30	1
Chloroform	ND		1.0	ug/L			04/20/24 21:30	1
2-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:30	1
4-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/20/24 21:30	1
Dibromochloromethane	ND		0.50	ug/L			04/20/24 21:30	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/20/24 21:30	1
Dibromomethane	ND		1.0	ug/L			04/20/24 21:30	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/20/24 21:30	1
1,1-Dichloroethane	ND	*+	1.0	ug/L			04/20/24 21:30	1
1,2-Dichloroethane	ND		1.0	ug/L			04/20/24 21:30	1
1,1-Dichloroethene	ND	*+	1.0	ug/L			04/20/24 21:30	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:30	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:30	1
1,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:30	1
1,3-Dichloropropane	ND		1.0	ug/L			04/20/24 21:30	1
2,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:30	1
1,1-Dichloropropene	ND		1.0	ug/L			04/20/24 21:30	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:30	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:30	1
Ethylbenzene	1.8		1.0	ug/L			04/20/24 21:30	1
Hexachlorobutadiene	ND		1.0	ug/L			04/20/24 21:30	1
2-Hexanone (MBK)	3.1		2.0	ug/L			04/20/24 21:30	1
Isopropylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
4-Isopropyltoluene	ND		1.0	ug/L			04/20/24 21:30	1
Methyl tert-butyl ether	ND		1.0	ug/L			04/20/24 21:30	1
4-Methyl-2-pentanone (MIBK)	ND	*+	2.0	ug/L			04/20/24 21:30	1
Methylene Chloride	ND	*+	2.0	ug/L			04/20/24 21:30	1
Naphthalene	ND		2.0	ug/L			04/20/24 21:30	1
N-Propylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
Styrene	ND		1.0	ug/L			04/20/24 21:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/20/24 21:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/20/24 21:30	1
Tetrachloroethene	ND		1.0	ug/L			04/20/24 21:30	1
Toluene	6.4	*+	1.0	ug/L			04/20/24 21:30	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/20/24 21:30	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-4

Date Collected: 04/12/24 08:30

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	ug/L			04/20/24 21:30	1
Trichloroethene	1.6		1.0	ug/L			04/20/24 21:30	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/20/24 21:30	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/20/24 21:30	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:30	1
Vinyl chloride	ND		1.0	ug/L			04/20/24 21:30	1
m,p-Xylene	1.7		1.0	ug/L			04/20/24 21:30	1
o-Xylene	2.0		1.0	ug/L			04/20/24 21:30	1
Tetrahydrofuran	ND		2.0	ug/L			04/20/24 21:30	1
Ethyl ether	ND		1.0	ug/L			04/20/24 21:30	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/20/24 21:30	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/20/24 21:30	1
di-Isopropyl ether	ND		1.0	ug/L			04/20/24 21:30	1
tert-Butanol	13		10	ug/L			04/20/24 21:30	1
1,4-Dioxane	ND		50	ug/L			04/20/24 21:30	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/20/24 21:30	1
Ethanol	ND	*1	200	ug/L			04/20/24 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		04/20/24 21:30	1
Toluene-d8 (Surr)	104		70 - 130		04/20/24 21:30	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/20/24 21:30	1
Dibromofluoromethane (Surr)	101		70 - 130		04/20/24 21:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	280		100	ug/L			04/22/24 18:23	10
Chloromethane	220		20	ug/L			04/22/24 18:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		04/22/24 18:23	10
Toluene-d8 (Surr)	99		70 - 130		04/22/24 18:23	10
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/22/24 18:23	10
Dibromofluoromethane (Surr)	99		70 - 130		04/22/24 18:23	10

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-5

Date Collected: 04/12/24 08:40

Matrix: Water

Date Received: 04/15/24 16:42

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/20/24 21:56	1
Acetone	11		10	ug/L			04/20/24 21:56	1
Acrylonitrile	ND		1.0	ug/L			04/20/24 21:56	1
Bromobenzene	ND		1.0	ug/L			04/20/24 21:56	1
Bromochloromethane	ND		1.0	ug/L			04/20/24 21:56	1
Bromodichloromethane	ND		0.50	ug/L			04/20/24 21:56	1
Bromoform	ND		1.0	ug/L			04/20/24 21:56	1
Bromomethane	ND		2.0	ug/L			04/20/24 21:56	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-5

Date Collected: 04/12/24 08:40

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		2.0	ug/L			04/20/24 21:56	1
n-Butylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
sec-Butylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
tert-Butylbenzene	ND	*+	1.0	ug/L			04/20/24 21:56	1
Carbon disulfide	ND		2.0	ug/L			04/20/24 21:56	1
Carbon tetrachloride	ND		1.0	ug/L			04/20/24 21:56	1
Chlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
Chloroethane	ND		2.0	ug/L			04/20/24 21:56	1
Chloroform	ND		1.0	ug/L			04/20/24 21:56	1
Chloromethane	ND		2.0	ug/L			04/20/24 21:56	1
2-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:56	1
4-Chlorotoluene	ND		1.0	ug/L			04/20/24 21:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/20/24 21:56	1
Dibromochloromethane	ND		0.50	ug/L			04/20/24 21:56	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/20/24 21:56	1
Dibromomethane	ND		1.0	ug/L			04/20/24 21:56	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/20/24 21:56	1
1,1-Dichloroethane	ND	*+	1.0	ug/L			04/20/24 21:56	1
1,2-Dichloroethane	ND		1.0	ug/L			04/20/24 21:56	1
1,1-Dichloroethene	ND	*+	1.0	ug/L			04/20/24 21:56	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:56	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 21:56	1
1,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:56	1
1,3-Dichloropropane	ND		1.0	ug/L			04/20/24 21:56	1
2,2-Dichloropropane	ND		1.0	ug/L			04/20/24 21:56	1
1,1-Dichloropropene	ND		1.0	ug/L			04/20/24 21:56	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:56	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 21:56	1
Ethylbenzene	1.2		1.0	ug/L			04/20/24 21:56	1
Hexachlorobutadiene	ND		1.0	ug/L			04/20/24 21:56	1
2-Hexanone (MBK)	ND		2.0	ug/L			04/20/24 21:56	1
Isopropylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
4-Isopropyltoluene	ND		1.0	ug/L			04/20/24 21:56	1
Methyl tert-butyl ether	8.5		1.0	ug/L			04/20/24 21:56	1
4-Methyl-2-pentanone (MIBK)	ND	*+	2.0	ug/L			04/20/24 21:56	1
Methylene Chloride	ND	*+	2.0	ug/L			04/20/24 21:56	1
Naphthalene	ND		2.0	ug/L			04/20/24 21:56	1
N-Propylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
Styrene	ND		1.0	ug/L			04/20/24 21:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/20/24 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/20/24 21:56	1
Tetrachloroethene	1.7		1.0	ug/L			04/20/24 21:56	1
Toluene	1.8	*+	1.0	ug/L			04/20/24 21:56	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/20/24 21:56	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-5

Date Collected: 04/12/24 08:40

Matrix: Water

Date Received: 04/15/24 16:42

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	ug/L			04/20/24 21:56	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/20/24 21:56	1
Trichloroethene	1.7		1.0	ug/L			04/20/24 21:56	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/20/24 21:56	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/20/24 21:56	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/20/24 21:56	1
Vinyl chloride	ND		1.0	ug/L			04/20/24 21:56	1
m,p-Xylene	8.6		1.0	ug/L			04/20/24 21:56	1
o-Xylene	15		1.0	ug/L			04/20/24 21:56	1
Tetrahydrofuran	ND		2.0	ug/L			04/20/24 21:56	1
Ethyl ether	ND		1.0	ug/L			04/20/24 21:56	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/20/24 21:56	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/20/24 21:56	1
di-Isopropyl ether	ND		1.0	ug/L			04/20/24 21:56	1
tert-Butanol	ND		10	ug/L			04/20/24 21:56	1
1,4-Dioxane	ND		50	ug/L			04/20/24 21:56	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/20/24 21:56	1
Ethanol	ND	*1	200	ug/L			04/20/24 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		04/20/24 21:56	1
Toluene-d8 (Surr)	101		70 - 130		04/20/24 21:56	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/20/24 21:56	1
Dibromofluoromethane (Surr)	99		70 - 130		04/20/24 21:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	110		10	ug/L			04/22/24 18:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		04/22/24 18:49	10
Toluene-d8 (Surr)	100		70 - 130		04/22/24 18:49	10
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/22/24 18:49	10
Dibromofluoromethane (Surr)	98		70 - 130		04/22/24 18:49	10

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Date Collected: 04/12/24 08:02

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Acetone	49		36	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Acrylonitrile	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Benzene	110		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Bromobenzene	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Bromochloromethane	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Bromodichloromethane	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1
Bromoform	ND		3.6	ug/Kg	☼	04/17/24 13:13	04/17/24 17:51	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Date Collected: 04/12/24 08:02

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
2-Butanone (MEK)	ND	*-	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
n-Butylbenzene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
sec-Butylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
tert-Butylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Carbon disulfide	55		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Carbon tetrachloride	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Chlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Chloroethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Chloroform	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Chloromethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
2-Chlorotoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
4-Chlorotoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2-Dibromo-3-Chloropropane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Dibromochloromethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2-Dibromoethane (EDB)	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Dibromomethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,3-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,4-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Dichlorodifluoromethane (Freon 12)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1-Dichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2-Dichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,3-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
2,2-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Ethylbenzene	63		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Hexachlorobutadiene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
2-Hexanone (MBK)	ND	*-	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Isopropylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
4-Isopropyltoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Methyl tert-butyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Methylene Chloride	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Naphthalene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
N-Propylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Styrene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Tetrachloroethene	8.5		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Toluene	130		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Date Collected: 04/12/24 08:02

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1,1-Trichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,1,2-Trichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Trichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Trichlorofluoromethane (Freon 11)	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2,3-Trichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Vinyl chloride	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
m,p-Xylene	160	E	3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
o-Xylene	100		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Tetrahydrofuran	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Ethyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Tert-amyl methyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Ethyl tert-butyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
di-Isopropyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
tert-Butanol	ND		71	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
1,4-Dioxane	ND		71	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1
Ethanol	ND		710	ug/Kg	✱	04/17/24 13:13	04/17/24 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/17/24 13:13	04/17/24 17:51	1
Toluene-d8 (Surr)	107		70 - 130	04/17/24 13:13	04/17/24 17:51	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	04/17/24 13:13	04/17/24 17:51	1
Dibromofluoromethane (Surr)	106		70 - 130	04/17/24 13:13	04/17/24 17:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Acetone	ND		720	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Acrylonitrile	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Benzene	350		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Bromobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Bromochloromethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Bromodichloromethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Bromoform	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Bromomethane	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
2-Butanone (MEK)	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
n-Butylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
sec-Butylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
tert-Butylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Carbon disulfide	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Carbon tetrachloride	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Chlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Chloroethane	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Chloroform	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Chloromethane	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
2-Chlorotoluene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Date Collected: 04/12/24 08:02

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2-Dibromo-3-Chloropropane	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Dibromochloromethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2-Dibromoethane (EDB)	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Dibromomethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2-Dichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,3-Dichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,4-Dichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Dichlorodifluoromethane (Freon 12)	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1-Dichloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2-Dichloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1-Dichloroethene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
cis-1,2-Dichloroethene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
trans-1,2-Dichloroethene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2-Dichloropropane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,3-Dichloropropane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
2,2-Dichloropropane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1-Dichloropropene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
cis-1,3-Dichloropropene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
trans-1,3-Dichloropropene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Ethylbenzene	590		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Hexachlorobutadiene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
2-Hexanone (MBK)	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Isopropylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
4-Isopropyltoluene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Methyl tert-butyl ether	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
4-Methyl-2-pentanone (MIBK)	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Methylene Chloride	ND	+	140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Naphthalene	120		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
N-Propylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Styrene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1,1,2-Tetrachloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1,2,2-Tetrachloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Tetrachloroethene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Toluene	740		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2,3-Trichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2,4-Trichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,3,5-Trichlorobenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1,1-Trichloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,1,2-Trichloroethane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Trichloroethene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Trichlorofluoromethane (Freon 11)	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2,3-Trichloropropane	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,2,4-Trimethylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,3,5-Trimethylbenzene	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Vinyl chloride	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
m,p-Xylene	1600		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
o-Xylene	1000		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Tetrahydrofuran	ND		140	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Lab Sample ID: 620-18006-6

Date Collected: 04/12/24 08:02

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Tert-amyl methyl ether	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Ethyl tert-butyl ether	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
di-Isopropyl ether	ND		72	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
tert-Butanol	ND		1400	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
1,4-Dioxane	ND		1400	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
trans-1,4-Dichloro-2-butene	ND		360	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2
Ethanol	ND		14000	ug/Kg	✱	04/19/24 11:31	04/19/24 13:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/19/24 11:31	04/19/24 13:11	2
Toluene-d8 (Surr)	100		70 - 130	04/19/24 11:31	04/19/24 13:11	2
1,2-Dichloroethane-d4 (Surr)	88		70 - 130	04/19/24 11:31	04/19/24 13:11	2
Dibromofluoromethane (Surr)	94		70 - 130	04/19/24 11:31	04/19/24 13:11	2

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-7

Date Collected: 04/12/24 08:12

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Acetone	35		29	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Acrylonitrile	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Benzene	41		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Bromobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Bromochloromethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Bromodichloromethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Bromoform	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Bromomethane	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
2-Butanone (MEK)	ND	*-	5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
n-Butylbenzene	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
sec-Butylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
tert-Butylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Carbon disulfide	24		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Carbon tetrachloride	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Chlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Chloroethane	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Chloroform	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Chloromethane	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
2-Chlorotoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
4-Chlorotoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2-Dibromo-3-Chloropropane	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Dibromochloromethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2-Dibromoethane (EDB)	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Dibromomethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,3-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,4-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-7

Date Collected: 04/12/24 08:12

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1-Dichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2-Dichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
cis-1,2-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
trans-1,2-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,3-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
2,2-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
cis-1,3-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
trans-1,3-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Ethylbenzene	37		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Hexachlorobutadiene	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
2-Hexanone (MBK)	ND	*-	5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Isopropylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
4-Isopropyltoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Methyl tert-butyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Methylene Chloride	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Naphthalene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
N-Propylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Styrene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1,1,2-Tetrachloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1,2,2-Tetrachloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Tetrachloroethene	6.9		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Toluene	56		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2,3-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2,4-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,3,5-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1,1-Trichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,1,2-Trichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Trichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Trichlorofluoromethane (Freon 11)	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2,3-Trichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,2,4-Trimethylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,3,5-Trimethylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Vinyl chloride	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
m,p-Xylene	75		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
o-Xylene	54		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Tetrahydrofuran	ND		5.7	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Ethyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Tert-amyl methyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Ethyl tert-butyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
di-Isopropyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
tert-Butanol	ND		57	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
1,4-Dioxane	ND		57	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
trans-1,4-Dichloro-2-butene	ND		14	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1
Ethanol	ND		570	ug/Kg	✱	04/17/24 13:13	04/17/24 18:16	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 1x

Lab Sample ID: 620-18006-7

Date Collected: 04/12/24 08:12

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/17/24 13:13	04/17/24 18:16	1
Toluene-d8 (Surr)	106		70 - 130	04/17/24 13:13	04/17/24 18:16	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	04/17/24 13:13	04/17/24 18:16	1
Dibromofluoromethane (Surr)	106		70 - 130	04/17/24 13:13	04/17/24 18:16	1

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-8

Date Collected: 04/12/24 08:22

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Acetone	55		34	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Acrylonitrile	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Benzene	42		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Bromobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Bromochloromethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Bromodichloromethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Bromoform	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Bromomethane	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
2-Butanone (MEK)	11 *-		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
n-Butylbenzene	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
sec-Butylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
tert-Butylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Carbon disulfide	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Carbon tetrachloride	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Chlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Chloroethane	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Chloroform	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Chloromethane	24		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
2-Chlorotoluene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
4-Chlorotoluene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2-Dibromo-3-Chloropropane	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Dibromochloromethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2-Dibromoethane (EDB)	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Dibromomethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2-Dichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,3-Dichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,4-Dichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Dichlorodifluoromethane (Freon 12)	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1-Dichloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2-Dichloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1-Dichloroethene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2-Dichloropropane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,3-Dichloropropane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
2,2-Dichloropropane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1-Dichloropropene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 2x

Lab Sample ID: 620-18006-8

Date Collected: 04/12/24 08:22

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 83.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Ethylbenzene	28		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Hexachlorobutadiene	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
2-Hexanone (MBK)	ND	*-	6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Isopropylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
4-Isopropyltoluene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Methyl tert-butyl ether	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
4-Methyl-2-pentanone (MIBK)	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Methylene Chloride	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Naphthalene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
N-Propylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Styrene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Tetrachloroethene	6.3		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Toluene	49		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,3,5-Trichlorobenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1,1-Trichloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,1,2-Trichloroethane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Trichloroethene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Trichlorofluoromethane (Freon 11)	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2,3-Trichloropropane	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Vinyl chloride	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
m,p-Xylene	42		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
o-Xylene	35		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Tetrahydrofuran	ND		6.7	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Ethyl ether	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Tert-amyl methyl ether	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Ethyl tert-butyl ether	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
di-Isopropyl ether	ND		3.4	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
tert-Butanol	ND		67	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
1,4-Dioxane	ND		67	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
trans-1,4-Dichloro-2-butene	ND		17	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Ethanol	ND		670	ug/Kg	☼	04/17/24 13:13	04/17/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			04/17/24 13:13	04/17/24 18:41	1
Toluene-d8 (Surr)	106		70 - 130			04/17/24 13:13	04/17/24 18:41	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130			04/17/24 13:13	04/17/24 18:41	1
Dibromofluoromethane (Surr)	107		70 - 130			04/17/24 13:13	04/17/24 18:41	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-9

Date Collected: 04/12/24 08:32

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Acetone	130		35	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Acrylonitrile	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Benzene	21		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Bromobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Bromochloromethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Bromodichloromethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Bromoform	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Bromomethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
2-Butanone (MEK)	16	*	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
n-Butylbenzene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
sec-Butylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
tert-Butylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Carbon disulfide	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Carbon tetrachloride	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Chlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Chloroethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Chloroform	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Chloromethane	83		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
2-Chlorotoluene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
4-Chlorotoluene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,2-Dibromo-3-Chloropropane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Dibromochloromethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,2-Dibromoethane (EDB)	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Dibromomethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,2-Dichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,3-Dichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,4-Dichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Dichlorodifluoromethane (Freon 12)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,1-Dichloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,2-Dichloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,1-Dichloroethene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,2-Dichloropropane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,3-Dichloropropane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
2,2-Dichloropropane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
1,1-Dichloropropene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Ethylbenzene	15		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Hexachlorobutadiene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
2-Hexanone (MBK)	ND	*	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Isopropylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
4-Isopropyltoluene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Methyl tert-butyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Methylene Chloride	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1
Naphthalene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 19:06	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x

Lab Sample ID: 620-18006-9

Date Collected: 04/12/24 08:32

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Styrene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,1,1,2-Tetrachloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Tetrachloroethene	4.2		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Toluene	21		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,2,3-Trichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,3,5-Trichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,1,1-Trichloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,1,2-Trichloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Trichloroethene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Trichlorofluoromethane (Freon 11)	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,2,3-Trichloropropane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,2,4-Trimethylbenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,3,5-Trimethylbenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Vinyl chloride	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
m,p-Xylene	19		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
o-Xylene	18		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Tetrahydrofuran	ND		7.1	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Ethyl ether	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Tert-amyl methyl ether	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Ethyl tert-butyl ether	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
di-Isopropyl ether	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
tert-Butanol	ND		71	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
1,4-Dioxane	ND		71	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Ethanol	ND		710	ug/Kg	☼	04/17/24 13:13	04/17/24 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			04/17/24 13:13	04/17/24 19:06	1
Toluene-d8 (Surr)	105		70 - 130			04/17/24 13:13	04/17/24 19:06	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130			04/17/24 13:13	04/17/24 19:06	1
Dibromofluoromethane (Surr)	108		70 - 130			04/17/24 13:13	04/17/24 19:06	1

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-10

Date Collected: 04/12/24 08:42

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Acetone	ND		40	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Acrylonitrile	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Benzene	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Bromobenzene	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Bromochloromethane	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Bromodichloromethane	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1
Bromoform	ND		4.0	ug/Kg	☼	04/17/24 13:13	04/17/24 19:31	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-10

Date Collected: 04/12/24 08:42

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
2-Butanone (MEK)	ND	*-	7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
n-Butylbenzene	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
sec-Butylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
tert-Butylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Carbon disulfide	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Carbon tetrachloride	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Chlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Chloroethane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Chloroform	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Chloromethane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
2-Chlorotoluene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
4-Chlorotoluene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2-Dibromo-3-Chloropropane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Dibromochloromethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2-Dibromoethane (EDB)	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Dibromomethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,3-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,4-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Dichlorodifluoromethane (Freon 12)	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1-Dichloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2-Dichloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1-Dichloroethene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2-Dichloropropane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,3-Dichloropropane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
2,2-Dichloropropane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1-Dichloropropene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Ethylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Hexachlorobutadiene	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
2-Hexanone (MBK)	ND	*-	7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Isopropylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
4-Isopropyltoluene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Methyl tert-butyl ether	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Methylene Chloride	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Naphthalene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
N-Propylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Styrene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Tetrachloroethene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Toluene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, ctrl

Lab Sample ID: 620-18006-10

Date Collected: 04/12/24 08:42

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1,1-Trichloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,1,2-Trichloroethane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Trichloroethene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Trichlorofluoromethane (Freon 11)	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2,3-Trichloropropane	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Vinyl chloride	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
m,p-Xylene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
o-Xylene	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Tetrahydrofuran	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Ethyl ether	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Tert-amyl methyl ether	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Ethyl tert-butyl ether	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
di-Isopropyl ether	ND		4.0	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
tert-Butanol	ND		79	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
1,4-Dioxane	ND		79	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1
Ethanol	ND		790	ug/Kg	✱	04/17/24 13:13	04/17/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/17/24 13:13	04/17/24 19:31	1
Toluene-d8 (Surr)	102		70 - 130	04/17/24 13:13	04/17/24 19:31	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	04/17/24 13:13	04/17/24 19:31	1
Dibromofluoromethane (Surr)	104		70 - 130	04/17/24 13:13	04/17/24 19:31	1

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Date Collected: 04/12/24 08:04

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Acetone	ND		36	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Acrylonitrile	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Benzene	130		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Bromobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Bromochloromethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Bromodichloromethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Bromoform	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Bromomethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
2-Butanone (MEK)	ND	*	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
n-Butylbenzene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
sec-Butylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
tert-Butylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Carbon disulfide	76		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Carbon tetrachloride	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Chlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Date Collected: 04/12/24 08:04

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Chloroform	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Chloromethane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
2-Chlorotoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
4-Chlorotoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2-Dibromo-3-Chloropropane	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Dibromochloromethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2-Dibromoethane (EDB)	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Dibromomethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,3-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,4-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Dichlorodifluoromethane (Freon 12)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1-Dichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2-Dichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,3-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
2,2-Dichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Ethylbenzene	67		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Hexachlorobutadiene	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
2-Hexanone (MBK)	ND	*	7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Isopropylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
4-Isopropyltoluene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Methyl tert-butyl ether	4.0		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Methylene Chloride	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Naphthalene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
N-Propylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Styrene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Tetrachloroethene	8.9		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Toluene	130		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,3,5-Trichlorobenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1,1-Trichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,1,2-Trichloroethane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Trichloroethene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Trichlorofluoromethane (Freon 11)	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2,3-Trichloropropane	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Date Collected: 04/12/24 08:04

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
m,p-Xylene	170	E	3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
o-Xylene	110		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Tetrahydrofuran	ND		7.1	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Ethyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Tert-amyl methyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Ethyl tert-butyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
di-Isopropyl ether	ND		3.6	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
tert-Butanol	ND		71	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
1,4-Dioxane	ND		71	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1
Ethanol	ND		710	ug/Kg	✱	04/17/24 13:13	04/17/24 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/17/24 13:13	04/17/24 19:56	1
Toluene-d8 (Surr)	107		70 - 130	04/17/24 13:13	04/17/24 19:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	04/17/24 13:13	04/17/24 19:56	1
Dibromofluoromethane (Surr)	107		70 - 130	04/17/24 13:13	04/17/24 19:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Acetone	ND		650	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Acrylonitrile	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Benzene	270		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Bromobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Bromochloromethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Bromodichloromethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Bromoform	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Bromomethane	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
2-Butanone (MEK)	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
n-Butylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
sec-Butylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
tert-Butylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Carbon disulfide	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Carbon tetrachloride	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Chlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Chloroethane	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Chloroform	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Chloromethane	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
2-Chlorotoluene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
4-Chlorotoluene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2-Dibromo-3-Chloropropane	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Dibromochloromethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2-Dibromoethane (EDB)	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Dibromomethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2-Dichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,3-Dichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,4-Dichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Date Collected: 04/12/24 08:04

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1-Dichloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2-Dichloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1-Dichloroethene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
cis-1,2-Dichloroethene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
trans-1,2-Dichloroethene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2-Dichloropropane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,3-Dichloropropane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
2,2-Dichloropropane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1-Dichloropropene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
cis-1,3-Dichloropropene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
trans-1,3-Dichloropropene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Ethylbenzene	520		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Hexachlorobutadiene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
2-Hexanone (MBK)	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Isopropylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
4-Isopropyltoluene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Methyl tert-butyl ether	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
4-Methyl-2-pentanone (MIBK)	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Methylene Chloride	ND	*+	130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Naphthalene	68		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
N-Propylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Styrene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1,1,2-Tetrachloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1,2,2-Tetrachloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Tetrachloroethene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Toluene	580		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2,3-Trichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2,4-Trichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,3,5-Trichlorobenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1,1-Trichloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,1,2-Trichloroethane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Trichloroethene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Trichlorofluoromethane (Freon 11)	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2,3-Trichloropropane	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,2,4-Trimethylbenzene	120		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,3,5-Trimethylbenzene	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Vinyl chloride	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
m,p-Xylene	1600		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
o-Xylene	920		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Tetrahydrofuran	ND		130	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Ethyl ether	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Tert-amyl methyl ether	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Ethyl tert-butyl ether	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
di-Isopropyl ether	ND		65	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
tert-Butanol	ND		1300	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
1,4-Dioxane	ND		1300	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
trans-1,4-Dichloro-2-butene	ND		330	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2
Ethanol	ND		13000	ug/Kg	✱	04/19/24 11:31	04/19/24 13:37	2

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 0.5x

Lab Sample ID: 620-18006-11

Date Collected: 04/12/24 08:04

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 82.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/19/24 11:31	04/19/24 13:37	2
Toluene-d8 (Surr)	101		70 - 130	04/19/24 11:31	04/19/24 13:37	2
1,2-Dichloroethane-d4 (Surr)	88		70 - 130	04/19/24 11:31	04/19/24 13:37	2
Dibromofluoromethane (Surr)	94		70 - 130	04/19/24 11:31	04/19/24 13:37	2

Client Sample ID: EA6/1R Day 60b, 1x

Lab Sample ID: 620-18006-12

Date Collected: 04/12/24 08:14

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Acetone	ND		35	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Acrylonitrile	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Benzene	47		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Bromobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Bromochloromethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Bromodichloromethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Bromoform	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Bromomethane	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
2-Butanone (MEK)	ND	*-	7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
n-Butylbenzene	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
sec-Butylbenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
tert-Butylbenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Carbon disulfide	27		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Carbon tetrachloride	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Chlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Chloroethane	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Chloroform	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Chloromethane	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
2-Chlorotoluene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
4-Chlorotoluene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,2-Dibromo-3-Chloropropane	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Dibromochloromethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,2-Dibromoethane (EDB)	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Dibromomethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,2-Dichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,3-Dichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,4-Dichlorobenzene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
Dichlorodifluoromethane (Freon 12)	ND		7.0	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,1-Dichloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,2-Dichloroethane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,1-Dichloroethene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,2-Dichloropropane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,3-Dichloropropane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
2,2-Dichloropropane	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
1,1-Dichloropropene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	☼	04/17/24 13:13	04/17/24 20:21	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 1x

Lab Sample ID: 620-18006-12

Date Collected: 04/12/24 08:14

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Ethylbenzene	36		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Hexachlorobutadiene	ND		7.0	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
2-Hexanone (MBK)	ND	*-	7.0	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Isopropylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
4-Isopropyltoluene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Methyl tert-butyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		7.0	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Methylene Chloride	ND		7.0	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Naphthalene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
N-Propylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Styrene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,1,1,2-Tetrachloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Tetrachloroethene	6.9		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Toluene	57		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,2,3-Trichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,3,5-Trichlorobenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,1,1-Trichloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,1,2-Trichloroethane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Trichloroethene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Trichlorofluoromethane (Freon 11)	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,2,3-Trichloropropane	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,2,4-Trimethylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,3,5-Trimethylbenzene	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Vinyl chloride	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
m,p-Xylene	72		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
o-Xylene	52		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Tetrahydrofuran	ND		7.0	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Ethyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Tert-amyl methyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Ethyl tert-butyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
di-Isopropyl ether	ND		3.5	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
tert-Butanol	ND		70	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
1,4-Dioxane	ND		70	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Ethanol	ND		700	ug/Kg	✱	04/17/24 13:13	04/17/24 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			04/17/24 13:13	04/17/24 20:21	1
Toluene-d8 (Surr)	105		70 - 130			04/17/24 13:13	04/17/24 20:21	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130			04/17/24 13:13	04/17/24 20:21	1
Dibromofluoromethane (Surr)	105		70 - 130			04/17/24 13:13	04/17/24 20:21	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 2x

Lab Sample ID: 620-18006-13

Date Collected: 04/12/24 08:24

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Acetone	65		39	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Acrylonitrile	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Benzene	29		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Bromobenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Bromochloromethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Bromodichloromethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Bromoform	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Bromomethane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
2-Butanone (MEK)	11	*	7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
n-Butylbenzene	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
sec-Butylbenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
tert-Butylbenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Carbon disulfide	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Carbon tetrachloride	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Chlorobenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Chloroethane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Chloroform	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Chloromethane	31		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
2-Chlorotoluene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
4-Chlorotoluene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,2-Dibromo-3-Chloropropane	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Dibromochloromethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,2-Dibromoethane (EDB)	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Dibromomethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,2-Dichlorobenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,3-Dichlorobenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,4-Dichlorobenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Dichlorodifluoromethane (Freon 12)	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,1-Dichloroethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,2-Dichloroethane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,1-Dichloroethene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,2-Dichloropropane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,3-Dichloropropane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
2,2-Dichloropropane	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
1,1-Dichloropropene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Ethylbenzene	18		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Hexachlorobutadiene	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
2-Hexanone (MBK)	ND	*	7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Isopropylbenzene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
4-Isopropyltoluene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Methyl tert-butyl ether	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
4-Methyl-2-pentanone (MIBK)	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Methylene Chloride	ND		7.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1
Naphthalene	ND		3.9	ug/Kg	✱	04/17/24 13:13	04/17/24 20:46	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 2x

Lab Sample ID: 620-18006-13

Date Collected: 04/12/24 08:24

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Styrene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Tetrachloroethene	4.3		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Toluene	29		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,3,5-Trichlorobenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,1,1-Trichloroethane	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,1,2-Trichloroethane	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Trichloroethene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Trichlorofluoromethane (Freon 11)	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,2,3-Trichloropropane	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Vinyl chloride	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
m,p-Xylene	25		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
o-Xylene	21		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Tetrahydrofuran	ND		7.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Ethyl ether	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Tert-amyl methyl ether	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Ethyl tert-butyl ether	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
di-Isopropyl ether	ND		3.9	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
tert-Butanol	ND		79	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
1,4-Dioxane	ND		79	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1
Ethanol	ND		790	ug/Kg	☼	04/17/24 13:13	04/17/24 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/17/24 13:13	04/17/24 20:46	1
Toluene-d8 (Surr)	104		70 - 130	04/17/24 13:13	04/17/24 20:46	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	04/17/24 13:13	04/17/24 20:46	1
Dibromofluoromethane (Surr)	106		70 - 130	04/17/24 13:13	04/17/24 20:46	1

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Date Collected: 04/12/24 08:34

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Acetone	100		29	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Acrylonitrile	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Benzene	18		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Bromobenzene	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Bromochloromethane	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Bromodichloromethane	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1
Bromoform	ND		2.9	ug/Kg	☼	04/17/24 13:13	04/17/24 21:11	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Date Collected: 04/12/24 08:34

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
2-Butanone (MEK)	14	*-	5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
n-Butylbenzene	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
sec-Butylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
tert-Butylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Carbon disulfide	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Carbon tetrachloride	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Chlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Chloroethane	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Chloroform	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Chloromethane	55		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
2-Chlorotoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
4-Chlorotoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2-Dibromo-3-Chloropropane	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Dibromochloromethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2-Dibromoethane (EDB)	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Dibromomethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,3-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,4-Dichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Dichlorodifluoromethane (Freon 12)	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1-Dichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2-Dichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
cis-1,2-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
trans-1,2-Dichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,3-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
2,2-Dichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
cis-1,3-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
trans-1,3-Dichloropropene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Ethylbenzene	14		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Hexachlorobutadiene	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
2-Hexanone (MBK)	ND	*-	5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Isopropylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
4-Isopropyltoluene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Methyl tert-butyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Methylene Chloride	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Naphthalene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
N-Propylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Styrene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1,1,2-Tetrachloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1,2,2-Tetrachloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Tetrachloroethene	4.0		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Toluene	19		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2,3-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2,4-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Date Collected: 04/12/24 08:34

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1,1-Trichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,1,2-Trichloroethane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Trichloroethene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Trichlorofluoromethane (Freon 11)	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2,3-Trichloropropane	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,2,4-Trimethylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,3,5-Trimethylbenzene	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Vinyl chloride	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
m,p-Xylene	18		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
o-Xylene	16		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Tetrahydrofuran	ND		5.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Ethyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Tert-amyl methyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Ethyl tert-butyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
di-Isopropyl ether	ND		2.9	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
tert-Butanol	ND		59	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
1,4-Dioxane	ND		59	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
trans-1,4-Dichloro-2-butene	ND		15	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1
Ethanol	ND		590	ug/Kg	✱	04/17/24 13:13	04/17/24 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/17/24 13:13	04/17/24 21:11	1
Toluene-d8 (Surr)	104		70 - 130	04/17/24 13:13	04/17/24 21:11	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	04/17/24 13:13	04/17/24 21:11	1
Dibromofluoromethane (Surr)	107		70 - 130	04/17/24 13:13	04/17/24 21:11	1

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

Date Collected: 04/12/24 08:44

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Acetone	ND		37	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Acrylonitrile	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Benzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Bromobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Bromochloromethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Bromodichloromethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Bromoform	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Bromomethane	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
2-Butanone (MEK)	ND	*	7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
n-Butylbenzene	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
sec-Butylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
tert-Butylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Carbon disulfide	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Carbon tetrachloride	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Chlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

Date Collected: 04/12/24 08:44

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Chloroform	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Chloromethane	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
2-Chlorotoluene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
4-Chlorotoluene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2-Dibromo-3-Chloropropane	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Dibromochloromethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2-Dibromoethane (EDB)	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Dibromomethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2-Dichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,3-Dichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,4-Dichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Dichlorodifluoromethane (Freon 12)	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1-Dichloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2-Dichloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1-Dichloroethene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2-Dichloropropane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,3-Dichloropropane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
2,2-Dichloropropane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1-Dichloropropene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Ethylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Hexachlorobutadiene	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
2-Hexanone (MBK)	ND	*	7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Isopropylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
4-Isopropyltoluene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Methyl tert-butyl ether	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Methylene Chloride	ND		7.4	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Naphthalene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
N-Propylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Styrene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Tetrachloroethene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Toluene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,3,5-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1,1-Trichloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,1,2-Trichloroethane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Trichloroethene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
Trichlorofluoromethane (Freon 11)	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2,3-Trichloropropane	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	✱	04/17/24 13:13	04/17/24 21:36	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

Date Collected: 04/12/24 08:44

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
m,p-Xylene	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
o-Xylene	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Tetrahydrofuran	ND		7.4	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Ethyl ether	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Tert-amyl methyl ether	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Ethyl tert-butyl ether	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
di-Isopropyl ether	ND		3.7	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
tert-Butanol	ND		74	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
1,4-Dioxane	ND		74	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
trans-1,4-Dichloro-2-butene	ND		19	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Ethanol	ND		740	ug/Kg	☼	04/17/24 13:13	04/17/24 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/17/24 13:13	04/17/24 21:36	1
Toluene-d8 (Surr)	101		70 - 130			04/17/24 13:13	04/17/24 21:36	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130			04/17/24 13:13	04/17/24 21:36	1
Dibromofluoromethane (Surr)	103		70 - 130			04/17/24 13:13	04/17/24 21:36	1

Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Matrix: Solid

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)
620-18006-6	EA6/1R Day 60, 0.5x	100	107	102	106
620-18006-6 - ME	EA6/1R Day 60, 0.5x	98	100	88	94
620-18006-7	EA6/1R Day 60, 1x	100	106	104	106
620-18006-8	EA6/1R Day 60, 2x	99	106	106	107
620-18006-9	EA6/1R Day 60, 3x	101	105	108	108
620-18006-10	EA6/1R Day 60, ctrl	100	102	104	104
620-18006-11	EA6/1R Day 60b, 0.5x	100	107	102	107
620-18006-11 - ME	EA6/1R Day 60b, 0.5x	97	101	88	94
620-18006-12	EA6/1R Day 60b, 1x	101	105	104	105
620-18006-13	EA6/1R Day 60b, 2x	102	104	107	106
620-18006-14	EA6/1R Day 60b, 3x	99	104	108	107
620-18006-15	EA6/1R Day 60b, ctrl	98	101	101	103
LCS 620-33852/1-A	Lab Control Sample	101	105	103	106
LCS 620-33912/1-A	Lab Control Sample	101	103	99	101
LCSD 620-33852/2-A	Lab Control Sample Dup	102	105	107	106
LCSD 620-33912/2-A	Lab Control Sample Dup	100	103	96	100
MB 620-33852/3-A	Method Blank	98	102	105	106
MB 620-33912/3-A	Method Blank	94	100	95	97
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8260C - 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)
620-18006-1	EA6/1R Day 60, 0.5x	102	102	96	100
620-18006-2	EA6/1R Day 60, 1x	100	103	99	101
620-18006-2 - DL	EA6/1R Day 60, 1x	96	99	97	97
620-18006-3	EA6/1R Day 60, 2x	101	105	100	100
620-18006-3 - DL	EA6/1R Day 60, 2x	96	97	95	96
620-18006-4	EA6/1R Day 60, 3x	101	104	101	101
620-18006-4 - DL	EA6/1R Day 60, 3x	96	99	97	99
620-18006-5	EA6/1R Day 60, ctrl	101	101	94	99
620-18006-5 - DL	EA6/1R Day 60, ctrl	95	100	97	98
LCS 620-33953/4	Lab Control Sample	100	105	98	101
LCS 620-33961/4	Lab Control Sample	96	100	90	96
LCSD 620-33953/5	Lab Control Sample Dup	100	104	95	100
LCSD 620-33961/5	Lab Control Sample Dup	96	100	91	96
MB 620-33953/7	Method Blank	95	102	94	100
MB 620-33961/7	Method Blank	94	97	88	93
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					

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Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH
DBFM = Dibromofluoromethane (Surr)

Job ID: 620-18006-1

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

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33852/3-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33852

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Acetone	ND		50	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Acrylonitrile	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Benzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Bromobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Bromochloromethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Bromodichloromethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Bromoform	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Bromomethane	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
2-Butanone (MEK)	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
n-Butylbenzene	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
sec-Butylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
tert-Butylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Carbon disulfide	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Carbon tetrachloride	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Chlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Chloroethane	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Chloroform	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Chloromethane	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
2-Chlorotoluene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
4-Chlorotoluene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Dibromochloromethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Dibromomethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1-Dichloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2-Dichloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1-Dichloroethene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2-Dichloropropane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,3-Dichloropropane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
2,2-Dichloropropane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1-Dichloropropene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Ethylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Hexachlorobutadiene	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
2-Hexanone (MBK)	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Isopropylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
4-Isopropyltoluene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Methylene Chloride	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33852/3-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33852

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
N-Propylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Styrene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Tetrachloroethene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Toluene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Trichloroethene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Vinyl chloride	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
m,p-Xylene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
o-Xylene	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Tetrahydrofuran	ND		10	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Ethyl ether	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
di-Isopropyl ether	ND		5.0	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
tert-Butanol	ND		100	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
1,4-Dioxane	ND		100	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		04/17/24 11:00	04/17/24 13:09	1
Ethanol	ND		1000	ug/Kg		04/17/24 11:00	04/17/24 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/17/24 11:00	04/17/24 13:09	1
Toluene-d8 (Surr)	102		70 - 130	04/17/24 11:00	04/17/24 13:09	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	04/17/24 11:00	04/17/24 13:09	1
Dibromofluoromethane (Surr)	106		70 - 130	04/17/24 11:00	04/17/24 13:09	1

Lab Sample ID: LCS 620-33852/1-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.1		ug/Kg		105	70 - 130
Acetone	20.0	15.5	J	ug/Kg		77	70 - 130
Acrylonitrile	20.0	19.4		ug/Kg		97	70 - 130
Benzene	20.0	22.5		ug/Kg		113	70 - 130
Bromobenzene	20.0	19.5		ug/Kg		97	70 - 130
Bromochloromethane	20.0	22.3		ug/Kg		111	70 - 130
Bromodichloromethane	20.0	22.7		ug/Kg		114	70 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33852/1-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	19.0		ug/Kg		95	70 - 130
Bromomethane	20.0	20.2		ug/Kg		101	70 - 130
2-Butanone (MEK)	20.0	13.6	*-	ug/Kg		68	70 - 130
n-Butylbenzene	20.0	20.2		ug/Kg		101	70 - 130
sec-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 130
tert-Butylbenzene	20.0	20.9		ug/Kg		105	70 - 130
Carbon disulfide	20.0	21.4		ug/Kg		107	70 - 130
Carbon tetrachloride	20.0	21.8		ug/Kg		109	70 - 130
Chlorobenzene	20.0	20.8		ug/Kg		104	70 - 130
Chloroethane	20.0	21.2		ug/Kg		106	70 - 130
Chloroform	20.0	22.1		ug/Kg		111	70 - 130
Chloromethane	20.0	19.6		ug/Kg		98	70 - 130
2-Chlorotoluene	20.0	20.3		ug/Kg		101	70 - 130
4-Chlorotoluene	20.0	20.4		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.6		ug/Kg		83	70 - 130
Dibromochloromethane	20.0	21.6		ug/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	20.0	21.2		ug/Kg		106	70 - 130
Dibromomethane	20.0	22.5		ug/Kg		113	70 - 130
1,2-Dichlorobenzene	20.0	18.7		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	20.0	20.3		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	20.0	20.0		ug/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	15.4		ug/Kg		77	70 - 130
1,1-Dichloroethane	20.0	23.9		ug/Kg		120	70 - 130
1,2-Dichloroethane	20.0	22.3		ug/Kg		112	70 - 130
1,1-Dichloroethene	20.0	23.2		ug/Kg		116	70 - 130
cis-1,2-Dichloroethene	20.0	21.9		ug/Kg		110	70 - 130
trans-1,2-Dichloroethene	20.0	23.2		ug/Kg		116	70 - 130
1,2-Dichloropropane	20.0	22.2		ug/Kg		111	70 - 130
1,3-Dichloropropane	20.0	21.6		ug/Kg		108	70 - 130
2,2-Dichloropropane	20.0	23.0		ug/Kg		115	70 - 130
1,1-Dichloropropene	20.0	20.8		ug/Kg		104	70 - 130
cis-1,3-Dichloropropene	20.0	19.9		ug/Kg		100	70 - 130
trans-1,3-Dichloropropene	20.0	22.2		ug/Kg		111	70 - 130
Ethylbenzene	20.0	20.7		ug/Kg		103	70 - 130
Hexachlorobutadiene	20.0	19.0		ug/Kg		95	70 - 130
2-Hexanone (MBK)	20.0	12.8	*-	ug/Kg		64	70 - 130
Isopropylbenzene	20.0	19.0		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	18.9		ug/Kg		95	70 - 130
Methyl tert-butyl ether	20.0	20.6		ug/Kg		103	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.2		ug/Kg		86	70 - 130
Methylene Chloride	20.0	24.8		ug/Kg		124	70 - 130
Naphthalene	20.0	17.8		ug/Kg		89	70 - 130
N-Propylbenzene	20.0	21.0		ug/Kg		105	70 - 130
Styrene	20.0	19.4		ug/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/Kg		98	70 - 130
Tetrachloroethene	20.0	21.7		ug/Kg		108	70 - 130
Toluene	20.0	22.5		ug/Kg		112	70 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33852/1-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130
1,2,4-Trichlorobenzene	20.0	19.5		ug/Kg		98	70 - 130
1,3,5-Trichlorobenzene	20.0	19.2		ug/Kg		96	70 - 130
1,1,1-Trichloroethane	20.0	22.5		ug/Kg		113	70 - 130
1,1,2-Trichloroethane	20.0	22.9		ug/Kg		114	70 - 130
Trichloroethene	20.0	21.4		ug/Kg		107	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	22.4		ug/Kg		112	70 - 130
1,2,3-Trichloropropane	20.0	19.9		ug/Kg		100	70 - 130
1,2,4-Trimethylbenzene	20.0	19.8		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	20.0	20.7		ug/Kg		104	70 - 130
Vinyl chloride	20.0	21.0		ug/Kg		105	70 - 130
m,p-Xylene	40.0	43.0		ug/Kg		107	70 - 130
o-Xylene	20.0	19.5		ug/Kg		98	70 - 130
Tetrahydrofuran	20.0	19.4		ug/Kg		97	70 - 130
Ethyl ether	20.0	20.4		ug/Kg		102	70 - 130
Tert-amyl methyl ether	20.0	19.6		ug/Kg		98	70 - 130
Ethyl tert-butyl ether	20.0	19.5		ug/Kg		98	70 - 130
di-Isopropyl ether	20.0	19.7		ug/Kg		98	70 - 130
tert-Butanol	200	192		ug/Kg		96	70 - 130
1,4-Dioxane	200	168		ug/Kg		84	70 - 130
trans-1,4-Dichloro-2-butene	20.0	21.8	J	ug/Kg		109	70 - 130
Ethanol	400	406	J	ug/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Lab Sample ID: LCSD 620-33852/2-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.8		ug/Kg		104	70 - 130	2	30
Acetone	20.0	16.0	J	ug/Kg		80	70 - 130	3	30
Acrylonitrile	20.0	20.9		ug/Kg		104	70 - 130	7	30
Benzene	20.0	22.1		ug/Kg		110	70 - 130	2	30
Bromobenzene	20.0	18.9		ug/Kg		95	70 - 130	3	30
Bromochloromethane	20.0	21.7		ug/Kg		109	70 - 130	3	30
Bromodichloromethane	20.0	22.1		ug/Kg		110	70 - 130	3	30
Bromoform	20.0	19.1		ug/Kg		95	70 - 130	1	30
Bromomethane	20.0	20.0		ug/Kg		100	70 - 130	1	30
2-Butanone (MEK)	20.0	13.7	*-	ug/Kg		68	70 - 130	0	30
n-Butylbenzene	20.0	19.3		ug/Kg		97	70 - 130	4	30
sec-Butylbenzene	20.0	20.1		ug/Kg		101	70 - 130	1	30
tert-Butylbenzene	20.0	20.4		ug/Kg		102	70 - 130	2	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33852/2-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	20.0	21.0		ug/Kg		105	70 - 130	2	30
Carbon tetrachloride	20.0	21.6		ug/Kg		108	70 - 130	1	30
Chlorobenzene	20.0	20.5		ug/Kg		102	70 - 130	2	30
Chloroethane	20.0	21.1		ug/Kg		105	70 - 130	1	30
Chloroform	20.0	21.7		ug/Kg		108	70 - 130	2	30
Chloromethane	20.0	19.2		ug/Kg		96	70 - 130	2	30
2-Chlorotoluene	20.0	20.0		ug/Kg		100	70 - 130	1	30
4-Chlorotoluene	20.0	19.8		ug/Kg		99	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	20.0	17.1		ug/Kg		85	70 - 130	3	30
Dibromochloromethane	20.0	21.5		ug/Kg		107	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	20.9		ug/Kg		104	70 - 130	2	30
Dibromomethane	20.0	21.5		ug/Kg		107	70 - 130	5	30
1,2-Dichlorobenzene	20.0	18.2		ug/Kg		91	70 - 130	3	30
1,3-Dichlorobenzene	20.0	19.8		ug/Kg		99	70 - 130	3	30
1,4-Dichlorobenzene	20.0	19.6		ug/Kg		98	70 - 130	2	30
Dichlorodifluoromethane (Freon 12)	20.0	15.0		ug/Kg		75	70 - 130	3	30
1,1-Dichloroethane	20.0	23.3		ug/Kg		116	70 - 130	3	30
1,2-Dichloroethane	20.0	21.5		ug/Kg		108	70 - 130	4	30
1,1-Dichloroethene	20.0	23.0		ug/Kg		115	70 - 130	1	30
cis-1,2-Dichloroethene	20.0	21.6		ug/Kg		108	70 - 130	2	30
trans-1,2-Dichloroethene	20.0	23.0		ug/Kg		115	70 - 130	1	30
1,2-Dichloropropane	20.0	22.1		ug/Kg		110	70 - 130	1	30
1,3-Dichloropropane	20.0	21.1		ug/Kg		105	70 - 130	3	30
2,2-Dichloropropane	20.0	22.9		ug/Kg		114	70 - 130	1	30
1,1-Dichloropropene	20.0	20.2		ug/Kg		101	70 - 130	3	30
cis-1,3-Dichloropropene	20.0	19.9		ug/Kg		99	70 - 130	0	30
trans-1,3-Dichloropropene	20.0	21.6		ug/Kg		108	70 - 130	2	30
Ethylbenzene	20.0	20.2		ug/Kg		101	70 - 130	2	30
Hexachlorobutadiene	20.0	18.2		ug/Kg		91	70 - 130	4	30
2-Hexanone (MBK)	20.0	13.2	*-	ug/Kg		66	70 - 130	4	30
Isopropylbenzene	20.0	18.6		ug/Kg		93	70 - 130	2	30
4-Isopropyltoluene	20.0	18.2		ug/Kg		91	70 - 130	4	30
Methyl tert-butyl ether	20.0	20.1		ug/Kg		100	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	20.0	17.6		ug/Kg		88	70 - 130	2	30
Methylene Chloride	20.0	22.4		ug/Kg		112	70 - 130	10	30
Naphthalene	20.0	17.8		ug/Kg		89	70 - 130	0	30
N-Propylbenzene	20.0	20.4		ug/Kg		102	70 - 130	3	30
Styrene	20.0	18.6		ug/Kg		93	70 - 130	4	30
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/Kg		98	70 - 130	2	30
1,1,2,2-Tetrachloroethane	20.0	19.6		ug/Kg		98	70 - 130	0	30
Tetrachloroethene	20.0	21.1		ug/Kg		105	70 - 130	3	30
Toluene	20.0	21.9		ug/Kg		110	70 - 130	2	30
1,2,3-Trichlorobenzene	20.0	18.4		ug/Kg		92	70 - 130	0	30
1,2,4-Trichlorobenzene	20.0	19.3		ug/Kg		97	70 - 130	1	30
1,3,5-Trichlorobenzene	20.0	18.7		ug/Kg		93	70 - 130	3	30
1,1,1-Trichloroethane	20.0	22.4		ug/Kg		112	70 - 130	1	30
1,1,2-Trichloroethane	20.0	22.3		ug/Kg		112	70 - 130	3	30
Trichloroethene	20.0	21.0		ug/Kg		105	70 - 130	2	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33852/2-A

Matrix: Solid

Analysis Batch: 33829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33852

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichlorofluoromethane (Freon 11)	20.0	22.3		ug/Kg		111	70 - 130	1	30
1,2,3-Trichloropropane	20.0	19.7		ug/Kg		99	70 - 130	1	30
1,2,4-Trimethylbenzene	20.0	19.3		ug/Kg		96	70 - 130	3	30
1,3,5-Trimethylbenzene	20.0	20.2		ug/Kg		101	70 - 130	2	30
Vinyl chloride	20.0	20.2		ug/Kg		101	70 - 130	4	30
m,p-Xylene	40.0	42.1		ug/Kg		105	70 - 130	2	30
o-Xylene	20.0	19.0		ug/Kg		95	70 - 130	3	30
Tetrahydrofuran	20.0	19.5		ug/Kg		98	70 - 130	1	30
Ethyl ether	20.0	19.9		ug/Kg		100	70 - 130	2	30
Tert-amyl methyl ether	20.0	19.3		ug/Kg		96	70 - 130	2	30
Ethyl tert-butyl ether	20.0	19.4		ug/Kg		97	70 - 130	1	30
di-Isopropyl ether	20.0	19.5		ug/Kg		97	70 - 130	1	30
tert-Butanol	200	206		ug/Kg		103	70 - 130	7	30
1,4-Dioxane	200	174		ug/Kg		87	70 - 130	4	30
trans-1,4-Dichloro-2-butene	20.0	21.0	J	ug/Kg		105	70 - 130	4	30
Ethanol	400	381	J	ug/Kg		95	70 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Toluene-d8 (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Lab Sample ID: MB 620-33912/3-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Acetone	ND		500	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Acrylonitrile	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Benzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Bromobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Bromochloromethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Bromodichloromethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Bromoform	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Bromomethane	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
2-Butanone (MEK)	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
n-Butylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
sec-Butylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
tert-Butylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Carbon disulfide	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Carbon tetrachloride	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Chlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Chloroethane	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Chloroform	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Chloromethane	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33912/3-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
4-Chlorotoluene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Dibromochloromethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Dibromomethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2-Dichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,3-Dichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,4-Dichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1-Dichloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2-Dichloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1-Dichloroethene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2-Dichloropropane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,3-Dichloropropane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
2,2-Dichloropropane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1-Dichloropropene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
cis-1,3-Dichloropropene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Ethylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Hexachlorobutadiene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
2-Hexanone (MBK)	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Isopropylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
4-Isopropyltoluene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Methyl tert-butyl ether	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Methylene Chloride	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Naphthalene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
N-Propylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Styrene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Tetrachloroethene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Toluene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1,1-Trichloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,1,2-Trichloroethane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Trichloroethene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2,3-Trichloropropane	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Vinyl chloride	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
m,p-Xylene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
o-Xylene	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33912/3-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		100	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Ethyl ether	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Tert-amyl methyl ether	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Ethyl tert-butyl ether	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
di-Isopropyl ether	ND		50	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
tert-Butanol	ND		1000	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
1,4-Dioxane	ND		1000	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		04/19/24 08:30	04/19/24 11:35	1
Ethanol	ND		10000	ug/Kg		04/19/24 08:30	04/19/24 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/19/24 08:30	04/19/24 11:35	1
Toluene-d8 (Surr)	100		70 - 130	04/19/24 08:30	04/19/24 11:35	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/19/24 08:30	04/19/24 11:35	1
Dibromofluoromethane (Surr)	97		70 - 130	04/19/24 08:30	04/19/24 11:35	1

Lab Sample ID: LCS 620-33912/1-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	992		ug/Kg		99	91 - 125
Acetone	1000	939		ug/Kg		94	47 - 157
Acrylonitrile	1000	1240		ug/Kg		124	79 - 129
Benzene	1000	1120		ug/Kg		112	88 - 130
Bromobenzene	1000	977		ug/Kg		98	81 - 125
Bromochloromethane	1000	1100		ug/Kg		110	85 - 139
Bromodichloromethane	1000	1110		ug/Kg		111	84 - 134
Bromoform	1000	1060		ug/Kg		106	83 - 131
Bromomethane	1000	1050		ug/Kg		105	63 - 157
2-Butanone (MEK)	1000	924		ug/Kg		92	58 - 161
n-Butylbenzene	1000	1030		ug/Kg		103	83 - 137
sec-Butylbenzene	1000	1080		ug/Kg		108	79 - 131
tert-Butylbenzene	1000	1140		ug/Kg		114	82 - 131
Carbon disulfide	1000	1100		ug/Kg		110	82 - 135
Carbon tetrachloride	1000	1030		ug/Kg		103	77 - 139
Chlorobenzene	1000	1020		ug/Kg		102	85 - 121
Chloroethane	1000	1040		ug/Kg		104	61 - 156
Chloroform	1000	1010		ug/Kg		101	89 - 123
Chloromethane	1000	1280		ug/Kg		128	81 - 130
2-Chlorotoluene	1000	1060		ug/Kg		106	90 - 117
4-Chlorotoluene	1000	1070		ug/Kg		107	88 - 121
1,2-Dibromo-3-Chloropropane	1000	902		ug/Kg		90	75 - 142
Dibromochloromethane	1000	1130		ug/Kg		113	85 - 131
1,2-Dibromoethane (EDB)	1000	1110		ug/Kg		111	85 - 133
Dibromomethane	1000	1060		ug/Kg		106	90 - 128
1,2-Dichlorobenzene	1000	1050		ug/Kg		105	88 - 128
1,3-Dichlorobenzene	1000	1070		ug/Kg		107	78 - 133

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33912/1-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	1000	1020		ug/Kg		102	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	1150		ug/Kg		115	55 - 159
1,1-Dichloroethane	1000	1180		ug/Kg		118	89 - 129
1,2-Dichloroethane	1000	988		ug/Kg		99	82 - 137
1,1-Dichloroethene	1000	1130		ug/Kg		113	82 - 138
cis-1,2-Dichloroethene	1000	1130		ug/Kg		113	79 - 133
trans-1,2-Dichloroethene	1000	1150		ug/Kg		115	81 - 137
1,2-Dichloropropane	1000	1190		ug/Kg		119	89 - 128
1,3-Dichloropropane	1000	1070		ug/Kg		107	86 - 133
2,2-Dichloropropane	1000	1090		ug/Kg		109	91 - 131
1,1-Dichloropropene	1000	989		ug/Kg		99	75 - 137
cis-1,3-Dichloropropene	1000	1130		ug/Kg		113	84 - 122
trans-1,3-Dichloropropene	1000	1200		ug/Kg		120	90 - 121
Ethylbenzene	1000	1040		ug/Kg		104	89 - 126
Hexachlorobutadiene	1000	849		ug/Kg		85	74 - 131
2-Hexanone (MBK)	1000	1020		ug/Kg		102	41 - 167
Isopropylbenzene	1000	1080		ug/Kg		108	88 - 125
4-Isopropyltoluene	1000	1030		ug/Kg		103	86 - 128
Methyl tert-butyl ether	1000	1050		ug/Kg		105	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	1180		ug/Kg		118	80 - 135
Methylene Chloride	1000	1200	*+	ug/Kg		120	87 - 119
Naphthalene	1000	808		ug/Kg		81	60 - 145
N-Propylbenzene	1000	1100		ug/Kg		110	87 - 120
Styrene	1000	1180		ug/Kg		118	88 - 125
1,1,1,2-Tetrachloroethane	1000	1000		ug/Kg		100	81 - 128
1,1,1,2,2-Tetrachloroethane	1000	1010		ug/Kg		101	88 - 126
Tetrachloroethene	1000	1030		ug/Kg		103	81 - 124
Toluene	1000	1090		ug/Kg		109	84 - 124
1,2,3-Trichlorobenzene	1000	933		ug/Kg		93	68 - 145
1,2,4-Trichlorobenzene	1000	927		ug/Kg		93	57 - 141
1,3,5-Trichlorobenzene	1000	984		ug/Kg		98	70 - 137
1,1,1-Trichloroethane	1000	1050		ug/Kg		105	88 - 131
1,1,2-Trichloroethane	1000	1140		ug/Kg		114	91 - 129
Trichloroethene	1000	1050		ug/Kg		105	88 - 131
Trichlorofluoromethane (Freon 11)	1000	1030		ug/Kg		103	86 - 130
1,2,3-Trichloropropane	1000	980		ug/Kg		98	92 - 126
1,2,4-Trimethylbenzene	1000	1150		ug/Kg		115	87 - 126
1,3,5-Trimethylbenzene	1000	1110		ug/Kg		111	90 - 125
Vinyl chloride	1000	1190		ug/Kg		119	73 - 145
m,p-Xylene	2000	2280		ug/Kg		114	83 - 122
o-Xylene	1000	1100		ug/Kg		110	87 - 122
Tetrahydrofuran	1000	1100		ug/Kg		110	81 - 134
Ethyl ether	1000	1070		ug/Kg		107	84 - 144
Tert-amyl methyl ether	1000	1060		ug/Kg		106	69 - 151
Ethyl tert-butyl ether	1000	1090		ug/Kg		109	75 - 128
di-Isopropyl ether	1000	1160		ug/Kg		116	82 - 131
tert-Butanol	10000	11900		ug/Kg		119	85 - 148

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33912/1-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10000	10400		ug/Kg		104	10 - 178
trans-1,4-Dichloro-2-butene	1000	1200		ug/Kg		120	74 - 151
Ethanol	20000	20800		ug/Kg		104	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

Lab Sample ID: LCSD 620-33912/2-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	980		ug/Kg		98	91 - 125	1	30
Acetone	1000	728		ug/Kg		73	47 - 157	25	30
Acrylonitrile	1000	1140		ug/Kg		114	79 - 129	8	30
Benzene	1000	1100		ug/Kg		110	88 - 130	2	30
Bromobenzene	1000	959		ug/Kg		96	81 - 125	2	30
Bromochloromethane	1000	1050		ug/Kg		105	85 - 139	5	30
Bromodichloromethane	1000	1080		ug/Kg		108	84 - 134	3	30
Bromoform	1000	1030		ug/Kg		103	83 - 131	2	30
Bromomethane	1000	1010		ug/Kg		101	63 - 157	4	30
2-Butanone (MEK)	1000	787		ug/Kg		79	58 - 161	16	30
n-Butylbenzene	1000	1080		ug/Kg		108	83 - 137	5	30
sec-Butylbenzene	1000	1100		ug/Kg		110	79 - 131	2	30
tert-Butylbenzene	1000	1140		ug/Kg		114	82 - 131	0	30
Carbon disulfide	1000	1080		ug/Kg		108	82 - 135	1	30
Carbon tetrachloride	1000	1000		ug/Kg		100	77 - 139	3	30
Chlorobenzene	1000	1020		ug/Kg		102	85 - 121	0	30
Chloroethane	1000	1030		ug/Kg		103	61 - 156	1	30
Chloroform	1000	984		ug/Kg		98	89 - 123	2	30
Chloromethane	1000	1260		ug/Kg		126	81 - 130	1	30
2-Chlorotoluene	1000	1050		ug/Kg		105	90 - 117	1	30
4-Chlorotoluene	1000	1070		ug/Kg		107	88 - 121	1	30
1,2-Dibromo-3-Chloropropane	1000	951		ug/Kg		95	75 - 142	5	30
Dibromochloromethane	1000	1090		ug/Kg		109	85 - 131	4	30
1,2-Dibromoethane (EDB)	1000	1080		ug/Kg		108	85 - 133	3	30
Dibromomethane	1000	1040		ug/Kg		104	90 - 128	2	30
1,2-Dichlorobenzene	1000	1080		ug/Kg		108	88 - 128	3	30
1,3-Dichlorobenzene	1000	1060		ug/Kg		106	78 - 133	1	30
1,4-Dichlorobenzene	1000	1020		ug/Kg		102	88 - 121	0	30
Dichlorodifluoromethane (Freon 12)	1000	1120		ug/Kg		112	55 - 159	3	30
1,1-Dichloroethane	1000	1150		ug/Kg		115	89 - 129	3	30
1,2-Dichloroethane	1000	951		ug/Kg		95	82 - 137	4	30
1,1-Dichloroethene	1000	1140		ug/Kg		114	82 - 138	1	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33912/2-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1000	1110		ug/Kg		111	79 - 133	2	30
trans-1,2-Dichloroethene	1000	1140		ug/Kg		114	81 - 137	1	30
1,2-Dichloropropane	1000	1150		ug/Kg		115	89 - 128	3	30
1,3-Dichloropropane	1000	1050		ug/Kg		105	86 - 133	2	30
2,2-Dichloropropane	1000	1070		ug/Kg		107	91 - 131	2	30
1,1-Dichloropropene	1000	974		ug/Kg		97	75 - 137	2	30
cis-1,3-Dichloropropene	1000	1100		ug/Kg		110	84 - 122	2	30
trans-1,3-Dichloropropene	1000	1170		ug/Kg		117	90 - 121	3	30
Ethylbenzene	1000	1030		ug/Kg		103	89 - 126	1	30
Hexachlorobutadiene	1000	876		ug/Kg		88	74 - 131	3	30
2-Hexanone (MBK)	1000	972		ug/Kg		97	41 - 167	5	30
Isopropylbenzene	1000	1080		ug/Kg		108	88 - 125	1	30
4-Isopropyltoluene	1000	1090		ug/Kg		109	86 - 128	6	30
Methyl tert-butyl ether	1000	1030		ug/Kg		103	74 - 144	2	30
4-Methyl-2-pentanone (MIBK)	1000	1180		ug/Kg		118	80 - 135	1	30
Methylene Chloride	1000	1150		ug/Kg		115	87 - 119	4	30
Naphthalene	1000	855		ug/Kg		85	60 - 145	6	30
N-Propylbenzene	1000	1090		ug/Kg		109	87 - 120	1	30
Styrene	1000	1170		ug/Kg		117	88 - 125	2	30
1,1,1,2-Tetrachloroethane	1000	977		ug/Kg		98	81 - 128	2	30
1,1,2,2-Tetrachloroethane	1000	985		ug/Kg		99	88 - 126	2	30
Tetrachloroethene	1000	1040		ug/Kg		104	81 - 124	1	30
Toluene	1000	1060		ug/Kg		106	84 - 124	3	30
1,2,3-Trichlorobenzene	1000	977		ug/Kg		98	68 - 145	5	30
1,2,4-Trichlorobenzene	1000	966		ug/Kg		97	57 - 141	4	30
1,3,5-Trichlorobenzene	1000	1020		ug/Kg		102	70 - 137	3	30
1,1,1-Trichloroethane	1000	1020		ug/Kg		102	88 - 131	2	30
1,1,2-Trichloroethane	1000	1130		ug/Kg		113	91 - 129	1	30
Trichloroethene	1000	1030		ug/Kg		103	88 - 131	2	30
Trichlorofluoromethane (Freon 11)	1000	1010		ug/Kg		101	86 - 130	2	30
1,2,3-Trichloropropane	1000	955		ug/Kg		95	92 - 126	3	30
1,2,4-Trimethylbenzene	1000	1140		ug/Kg		114	87 - 126	1	30
1,3,5-Trimethylbenzene	1000	1100		ug/Kg		110	90 - 125	1	30
Vinyl chloride	1000	1170		ug/Kg		117	73 - 145	2	30
m,p-Xylene	2000	2270		ug/Kg		113	83 - 122	1	30
o-Xylene	1000	1100		ug/Kg		110	87 - 122	0	30
Tetrahydrofuran	1000	1060		ug/Kg		106	81 - 134	4	30
Ethyl ether	1000	1050		ug/Kg		105	84 - 144	2	30
Tert-amyl methyl ether	1000	1050		ug/Kg		105	69 - 151	1	30
Ethyl tert-butyl ether	1000	1080		ug/Kg		108	75 - 128	1	30
di-Isopropyl ether	1000	1150		ug/Kg		115	82 - 131	1	30
tert-Butanol	10000	11900		ug/Kg		119	85 - 148	1	30
1,4-Dioxane	10000	10600		ug/Kg		106	10 - 178	2	30
trans-1,4-Dichloro-2-butene	1000	1190		ug/Kg		119	74 - 151	0	30
Ethanol	20000	22200		ug/Kg		111	83 - 135	7	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33912/2-A

Matrix: Solid

Analysis Batch: 33913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33912

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-33953/7

Matrix: Water

Analysis Batch: 33953

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/20/24 13:44	1
Acetone	ND		10	ug/L			04/20/24 13:44	1
Acrylonitrile	ND		1.0	ug/L			04/20/24 13:44	1
Benzene	ND		1.0	ug/L			04/20/24 13:44	1
Bromobenzene	ND		1.0	ug/L			04/20/24 13:44	1
Bromochloromethane	ND		1.0	ug/L			04/20/24 13:44	1
Bromodichloromethane	ND		0.50	ug/L			04/20/24 13:44	1
Bromoform	ND		1.0	ug/L			04/20/24 13:44	1
Bromomethane	ND		2.0	ug/L			04/20/24 13:44	1
2-Butanone (MEK)	ND		2.0	ug/L			04/20/24 13:44	1
n-Butylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
sec-Butylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
tert-Butylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
Carbon disulfide	ND		2.0	ug/L			04/20/24 13:44	1
Carbon tetrachloride	ND		1.0	ug/L			04/20/24 13:44	1
Chlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
Chloroethane	ND		2.0	ug/L			04/20/24 13:44	1
Chloroform	ND		1.0	ug/L			04/20/24 13:44	1
Chloromethane	ND		2.0	ug/L			04/20/24 13:44	1
2-Chlorotoluene	ND		1.0	ug/L			04/20/24 13:44	1
4-Chlorotoluene	ND		1.0	ug/L			04/20/24 13:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/20/24 13:44	1
Dibromochloromethane	ND		0.50	ug/L			04/20/24 13:44	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/20/24 13:44	1
Dibromomethane	ND		1.0	ug/L			04/20/24 13:44	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/20/24 13:44	1
1,1-Dichloroethane	ND		1.0	ug/L			04/20/24 13:44	1
1,2-Dichloroethane	ND		1.0	ug/L			04/20/24 13:44	1
1,1-Dichloroethene	ND		1.0	ug/L			04/20/24 13:44	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 13:44	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/20/24 13:44	1
1,2-Dichloropropane	ND		1.0	ug/L			04/20/24 13:44	1
1,3-Dichloropropane	ND		1.0	ug/L			04/20/24 13:44	1
2,2-Dichloropropane	ND		1.0	ug/L			04/20/24 13:44	1
1,1-Dichloropropene	ND		1.0	ug/L			04/20/24 13:44	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33953/7

Matrix: Water

Analysis Batch: 33953

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 13:44	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/20/24 13:44	1
Ethylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
Hexachlorobutadiene	ND		1.0	ug/L			04/20/24 13:44	1
2-Hexanone (MBK)	ND		2.0	ug/L			04/20/24 13:44	1
Isopropylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
4-Isopropyltoluene	ND		1.0	ug/L			04/20/24 13:44	1
Methyl tert-butyl ether	ND		1.0	ug/L			04/20/24 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			04/20/24 13:44	1
Methylene Chloride	ND		2.0	ug/L			04/20/24 13:44	1
Naphthalene	ND		2.0	ug/L			04/20/24 13:44	1
N-Propylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
Styrene	ND		1.0	ug/L			04/20/24 13:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/20/24 13:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/20/24 13:44	1
Tetrachloroethene	ND		1.0	ug/L			04/20/24 13:44	1
Toluene	ND		1.0	ug/L			04/20/24 13:44	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/20/24 13:44	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/20/24 13:44	1
Trichloroethene	ND		1.0	ug/L			04/20/24 13:44	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/20/24 13:44	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/20/24 13:44	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/20/24 13:44	1
Vinyl chloride	ND		1.0	ug/L			04/20/24 13:44	1
m,p-Xylene	ND		1.0	ug/L			04/20/24 13:44	1
o-Xylene	ND		1.0	ug/L			04/20/24 13:44	1
Tetrahydrofuran	ND		2.0	ug/L			04/20/24 13:44	1
Ethyl ether	ND		1.0	ug/L			04/20/24 13:44	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/20/24 13:44	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/20/24 13:44	1
di-Isopropyl ether	ND		1.0	ug/L			04/20/24 13:44	1
tert-Butanol	ND		10	ug/L			04/20/24 13:44	1
1,4-Dioxane	ND		50	ug/L			04/20/24 13:44	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/20/24 13:44	1
Ethanol	ND		200	ug/L			04/20/24 13:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		04/20/24 13:44	1
Toluene-d8 (Surr)	102		70 - 130		04/20/24 13:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/20/24 13:44	1
Dibromofluoromethane (Surr)	100		70 - 130		04/20/24 13:44	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33953/4

Matrix: Water

Analysis Batch: 33953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.2		ug/L		106	85 - 124
Acetone	20.0	17.9		ug/L		90	14 - 133
Acrylonitrile	20.0	26.2		ug/L		131	62 - 134
Benzene	20.0	23.4	*+	ug/L		117	86 - 111
Bromobenzene	20.0	20.1		ug/L		101	82 - 120
Bromochloromethane	20.0	22.9		ug/L		115	83 - 123
Bromodichloromethane	20.0	23.0		ug/L		115	83 - 137
Bromoform	20.0	21.9		ug/L		110	91 - 137
Bromomethane	20.0	20.4		ug/L		102	29 - 148
2-Butanone (MEK)	20.0	17.4		ug/L		87	10 - 200
n-Butylbenzene	20.0	22.1		ug/L		110	85 - 138
sec-Butylbenzene	20.0	23.6		ug/L		118	75 - 118
tert-Butylbenzene	20.0	24.5	*+	ug/L		123	85 - 122
Carbon disulfide	20.0	23.8		ug/L		119	69 - 150
Carbon tetrachloride	20.0	21.7		ug/L		108	84 - 123
Chlorobenzene	20.0	21.2		ug/L		106	93 - 115
Chloroethane	20.0	21.5		ug/L		108	56 - 155
Chloroform	20.0	21.0		ug/L		105	84 - 116
Chloromethane	20.0	27.1		ug/L		136	45 - 138
2-Chlorotoluene	20.0	22.1		ug/L		111	88 - 116
4-Chlorotoluene	20.0	22.2		ug/L		111	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	70 - 139
Dibromochloromethane	20.0	23.6		ug/L		118	83 - 132
1,2-Dibromoethane (EDB)	20.0	23.4		ug/L		117	82 - 125
Dibromomethane	20.0	22.5		ug/L		113	80 - 125
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	84 - 128
1,3-Dichlorobenzene	20.0	22.3		ug/L		111	85 - 120
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	24.6		ug/L		123	36 - 131
1,1-Dichloroethane	20.0	24.6	*+	ug/L		123	81 - 120
1,2-Dichloroethane	20.0	20.1		ug/L		101	82 - 116
1,1-Dichloroethene	20.0	24.6	*+	ug/L		123	83 - 120
cis-1,2-Dichloroethene	20.0	24.3		ug/L		122	81 - 124
trans-1,2-Dichloroethene	20.0	24.0		ug/L		120	81 - 127
1,2-Dichloropropane	20.0	24.7		ug/L		123	76 - 132
1,3-Dichloropropane	20.0	22.5		ug/L		113	74 - 122
2,2-Dichloropropane	20.0	22.7		ug/L		114	77 - 130
1,1-Dichloropropene	20.0	21.8		ug/L		109	81 - 115
cis-1,3-Dichloropropene	20.0	23.8		ug/L		119	74 - 129
trans-1,3-Dichloropropene	20.0	25.2		ug/L		126	78 - 126
Ethylbenzene	20.0	21.6		ug/L		108	89 - 117
Hexachlorobutadiene	20.0	18.7		ug/L		94	77 - 118
2-Hexanone (MBK)	20.0	20.5		ug/L		102	37 - 123
Isopropylbenzene	20.0	22.8		ug/L		114	83 - 117
4-Isopropyltoluene	20.0	22.2		ug/L		111	83 - 124
Methyl tert-butyl ether	20.0	22.3		ug/L		112	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	26.1	*+	ug/L		131	59 - 118

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33953/4

Matrix: Water

Analysis Batch: 33953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	24.8	*+	ug/L		124	75 - 121
Naphthalene	20.0	16.6		ug/L		83	67 - 123
N-Propylbenzene	20.0	22.9		ug/L		115	84 - 128
Styrene	20.0	24.1		ug/L		120	78 - 127
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	91 - 118
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	77 - 129
Tetrachloroethene	20.0	22.5		ug/L		112	85 - 116
Toluene	20.0	22.9	*+	ug/L		114	88 - 109
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	67 - 134
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	78 - 133
1,3,5-Trichlorobenzene	20.0	20.8		ug/L		104	77 - 127
1,1,1-Trichloroethane	20.0	22.4		ug/L		112	83 - 124
1,1,2-Trichloroethane	20.0	23.9		ug/L		119	84 - 132
Trichloroethene	20.0	22.5		ug/L		113	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	22.4		ug/L		112	82 - 126
1,2,3-Trichloropropane	20.0	19.6		ug/L		98	77 - 124
1,2,4-Trimethylbenzene	20.0	23.7		ug/L		118	89 - 126
1,3,5-Trimethylbenzene	20.0	23.4		ug/L		117	89 - 125
Vinyl chloride	20.0	25.5		ug/L		128	62 - 130
m,p-Xylene	40.0	47.7		ug/L		119	85 - 123
o-Xylene	20.0	23.0		ug/L		115	85 - 119
Tetrahydrofuran	20.0	20.5		ug/L		102	60 - 133
Ethyl ether	20.0	21.8		ug/L		109	69 - 122
Tert-amyl methyl ether	20.0	22.3		ug/L		111	50 - 140
Ethyl tert-butyl ether	20.0	22.8		ug/L		114	60 - 131
di-Isopropyl ether	20.0	24.4		ug/L		122	67 - 125
tert-Butanol	200	242		ug/L		121	50 - 169
1,4-Dioxane	200	194		ug/L		97	28 - 150
trans-1,4-Dichloro-2-butene	20.0	24.4		ug/L		122	48 - 153
Ethanol	400	512		ug/L		128	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130

Lab Sample ID: LCSD 620-33953/5

Matrix: Water

Analysis Batch: 33953

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.0		ug/L		100	85 - 124	6	20
Acetone	20.0	15.4		ug/L		77	14 - 133	15	20
Acrylonitrile	20.0	24.2		ug/L		121	62 - 134	8	20
Benzene	20.0	22.8	*+	ug/L		114	86 - 111	3	20
Bromobenzene	20.0	19.6		ug/L		98	82 - 120	3	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33953/5

Matrix: Water

Analysis Batch: 33953

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 Limit
Bromochloromethane	20.0	22.0		ug/L		110	83 - 123	4	20
Bromodichloromethane	20.0	22.1		ug/L		110	83 - 137	4	20
Bromoform	20.0	20.8		ug/L		104	91 - 137	5	20
Bromomethane	20.0	19.8		ug/L		99	29 - 148	3	20
2-Butanone (MEK)	20.0	15.6		ug/L		78	10 - 200	11	20
n-Butylbenzene	20.0	21.8		ug/L		109	85 - 138	1	20
sec-Butylbenzene	20.0	22.8		ug/L		114	75 - 118	4	20
tert-Butylbenzene	20.0	23.9		ug/L		120	85 - 122	3	20
Carbon disulfide	20.0	23.0		ug/L		115	69 - 150	4	20
Carbon tetrachloride	20.0	21.0		ug/L		105	84 - 123	3	20
Chlorobenzene	20.0	20.6		ug/L		103	93 - 115	3	20
Chloroethane	20.0	20.9		ug/L		104	56 - 155	3	20
Chloroform	20.0	20.1		ug/L		100	84 - 116	5	20
Chloromethane	20.0	25.6		ug/L		128	45 - 138	6	20
2-Chlorotoluene	20.0	21.6		ug/L		108	88 - 116	2	20
4-Chlorotoluene	20.0	21.5		ug/L		107	81 - 128	3	20
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		88	70 - 139	5	20
Dibromochloromethane	20.0	22.3		ug/L		111	83 - 132	6	20
1,2-Dibromoethane (EDB)	20.0	22.2		ug/L		111	82 - 125	5	20
Dibromomethane	20.0	21.2		ug/L		106	80 - 125	6	20
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	84 - 128	1	20
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	85 - 120	4	20
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	23.4		ug/L		117	36 - 131	5	20
1,1-Dichloroethane	20.0	23.5		ug/L		118	81 - 120	4	20
1,2-Dichloroethane	20.0	19.3		ug/L		96	82 - 116	4	20
1,1-Dichloroethene	20.0	24.1	*+	ug/L		121	83 - 120	2	20
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	81 - 124	5	20
trans-1,2-Dichloroethene	20.0	23.7		ug/L		119	81 - 127	1	20
1,2-Dichloropropane	20.0	23.8		ug/L		119	76 - 132	4	20
1,3-Dichloropropane	20.0	21.4		ug/L		107	74 - 122	5	20
2,2-Dichloropropane	20.0	22.0		ug/L		110	77 - 130	3	20
1,1-Dichloropropene	20.0	21.3		ug/L		107	81 - 115	2	20
cis-1,3-Dichloropropene	20.0	23.3		ug/L		116	74 - 129	2	20
trans-1,3-Dichloropropene	20.0	24.0		ug/L		120	78 - 126	5	20
Ethylbenzene	20.0	21.2		ug/L		106	89 - 117	2	20
Hexachlorobutadiene	20.0	18.3		ug/L		91	77 - 118	3	20
2-Hexanone (MBK)	20.0	19.0		ug/L		95	37 - 123	8	20
Isopropylbenzene	20.0	22.4		ug/L		112	83 - 117	2	20
4-Isopropyltoluene	20.0	21.5		ug/L		107	83 - 124	3	20
Methyl tert-butyl ether	20.0	21.4		ug/L		107	70 - 126	4	20
4-Methyl-2-pentanone (MIBK)	20.0	23.5		ug/L		118	59 - 118	11	20
Methylene Chloride	20.0	23.4		ug/L		117	75 - 121	5	20
Naphthalene	20.0	16.4		ug/L		82	67 - 123	1	20
N-Propylbenzene	20.0	22.2		ug/L		111	84 - 128	3	20
Styrene	20.0	23.2		ug/L		116	78 - 127	3	20
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		98	91 - 118	5	20
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	77 - 129	6	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33953/5

Matrix: Water

Analysis Batch: 33953

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 Limit
Tetrachloroethene	20.0	21.5		ug/L		108	85 - 116	4	20
Toluene	20.0	21.9	*+	ug/L		110	88 - 109	4	20
1,2,3-Trichlorobenzene	20.0	18.8		ug/L		94	67 - 134	5	20
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	78 - 133	4	20
1,3,5-Trichlorobenzene	20.0	20.4		ug/L		102	77 - 127	2	20
1,1,1-Trichloroethane	20.0	21.3		ug/L		106	83 - 124	5	20
1,1,2-Trichloroethane	20.0	22.8		ug/L		114	84 - 132	5	20
Trichloroethene	20.0	21.8		ug/L		109	74 - 118	3	20
Trichlorofluoromethane (Freon 11)	20.0	21.3		ug/L		106	82 - 126	5	20
1,2,3-Trichloropropane	20.0	18.6		ug/L		93	77 - 124	5	20
1,2,4-Trimethylbenzene	20.0	23.2		ug/L		116	89 - 126	2	20
1,3,5-Trimethylbenzene	20.0	22.6		ug/L		113	89 - 125	4	20
Vinyl chloride	20.0	24.3		ug/L		122	62 - 130	5	20
m,p-Xylene	40.0	46.4		ug/L		116	85 - 123	3	20
o-Xylene	20.0	22.5		ug/L		112	85 - 119	2	20
Tetrahydrofuran	20.0	22.6		ug/L		113	60 - 133	10	20
Ethyl ether	20.0	21.0		ug/L		105	69 - 122	4	20
Tert-amyl methyl ether	20.0	21.6		ug/L		108	50 - 140	3	20
Ethyl tert-butyl ether	20.0	22.2		ug/L		111	60 - 131	3	20
di-Isopropyl ether	20.0	23.4		ug/L		117	67 - 125	4	20
tert-Butanol	200	233		ug/L		116	50 - 169	4	20
1,4-Dioxane	200	185		ug/L		93	28 - 150	5	20
trans-1,4-Dichloro-2-butene	20.0	21.2		ug/L		106	48 - 153	14	20
Ethanol	400	413	*1	ug/L		103	47 - 170	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: MB 620-33961/7

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/22/24 11:40	1
Acetone	ND		10	ug/L			04/22/24 11:40	1
Acrylonitrile	ND		1.0	ug/L			04/22/24 11:40	1
Benzene	ND		1.0	ug/L			04/22/24 11:40	1
Bromobenzene	ND		1.0	ug/L			04/22/24 11:40	1
Bromochloromethane	ND		1.0	ug/L			04/22/24 11:40	1
Bromodichloromethane	ND		0.50	ug/L			04/22/24 11:40	1
Bromoform	ND		1.0	ug/L			04/22/24 11:40	1
Bromomethane	ND		2.0	ug/L			04/22/24 11:40	1
2-Butanone (MEK)	ND		2.0	ug/L			04/22/24 11:40	1
n-Butylbenzene	ND		1.0	ug/L			04/22/24 11:40	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33961/7

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
tert-Butylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
Carbon disulfide	ND		2.0	ug/L			04/22/24 11:40	1
Carbon tetrachloride	ND		1.0	ug/L			04/22/24 11:40	1
Chlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
Chloroethane	ND		2.0	ug/L			04/22/24 11:40	1
Chloroform	ND		1.0	ug/L			04/22/24 11:40	1
Chloromethane	ND		2.0	ug/L			04/22/24 11:40	1
2-Chlorotoluene	ND		1.0	ug/L			04/22/24 11:40	1
4-Chlorotoluene	ND		1.0	ug/L			04/22/24 11:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/22/24 11:40	1
Dibromochloromethane	ND		0.50	ug/L			04/22/24 11:40	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/22/24 11:40	1
Dibromomethane	ND		1.0	ug/L			04/22/24 11:40	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/22/24 11:40	1
1,1-Dichloroethane	ND		1.0	ug/L			04/22/24 11:40	1
1,2-Dichloroethane	ND		1.0	ug/L			04/22/24 11:40	1
1,1-Dichloroethene	ND		1.0	ug/L			04/22/24 11:40	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/22/24 11:40	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/22/24 11:40	1
1,2-Dichloropropane	ND		1.0	ug/L			04/22/24 11:40	1
1,3-Dichloropropane	ND		1.0	ug/L			04/22/24 11:40	1
2,2-Dichloropropane	ND		1.0	ug/L			04/22/24 11:40	1
1,1-Dichloropropene	ND		1.0	ug/L			04/22/24 11:40	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/22/24 11:40	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/22/24 11:40	1
Ethylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
Hexachlorobutadiene	ND		1.0	ug/L			04/22/24 11:40	1
2-Hexanone (MBK)	ND		2.0	ug/L			04/22/24 11:40	1
Isopropylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
4-Isopropyltoluene	ND		1.0	ug/L			04/22/24 11:40	1
Methyl tert-butyl ether	ND		1.0	ug/L			04/22/24 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			04/22/24 11:40	1
Methylene Chloride	ND		2.0	ug/L			04/22/24 11:40	1
Naphthalene	ND		2.0	ug/L			04/22/24 11:40	1
N-Propylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
Styrene	ND		1.0	ug/L			04/22/24 11:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/22/24 11:40	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/22/24 11:40	1
Tetrachloroethene	ND		1.0	ug/L			04/22/24 11:40	1
Toluene	ND		1.0	ug/L			04/22/24 11:40	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/22/24 11:40	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/22/24 11:40	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: MB 620-33961/7

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	ug/L			04/22/24 11:40	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/22/24 11:40	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/22/24 11:40	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/22/24 11:40	1
Vinyl chloride	ND		1.0	ug/L			04/22/24 11:40	1
m,p-Xylene	ND		1.0	ug/L			04/22/24 11:40	1
o-Xylene	ND		1.0	ug/L			04/22/24 11:40	1
Tetrahydrofuran	ND		2.0	ug/L			04/22/24 11:40	1
Ethyl ether	ND		1.0	ug/L			04/22/24 11:40	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/22/24 11:40	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/22/24 11:40	1
di-Isopropyl ether	ND		1.0	ug/L			04/22/24 11:40	1
tert-Butanol	ND		10	ug/L			04/22/24 11:40	1
1,4-Dioxane	ND		50	ug/L			04/22/24 11:40	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/22/24 11:40	1
Ethanol	ND		200	ug/L			04/22/24 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		04/22/24 11:40	1
Toluene-d8 (Surr)	97		70 - 130		04/22/24 11:40	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		04/22/24 11:40	1
Dibromofluoromethane (Surr)	93		70 - 130		04/22/24 11:40	1

Lab Sample ID: LCS 620-33961/4

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.7		ug/L		94	85 - 124
Acetone	20.0	15.4		ug/L		77	14 - 133
Acrylonitrile	20.0	24.2		ug/L		121	62 - 134
Benzene	20.0	21.4		ug/L		107	86 - 111
Bromobenzene	20.0	20.0		ug/L		100	82 - 120
Bromochloromethane	20.0	20.5		ug/L		102	83 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	83 - 137
Bromoform	20.0	22.7		ug/L		113	91 - 137
Bromomethane	20.0	17.2		ug/L		86	29 - 148
2-Butanone (MEK)	20.0	17.6		ug/L		88	10 - 200
n-Butylbenzene	20.0	22.0		ug/L		110	85 - 138
sec-Butylbenzene	20.0	22.5		ug/L		112	75 - 118
tert-Butylbenzene	20.0	22.4		ug/L		112	85 - 122
Carbon disulfide	20.0	20.5		ug/L		102	69 - 150
Carbon tetrachloride	20.0	18.9		ug/L		94	84 - 123
Chlorobenzene	20.0	20.7		ug/L		103	93 - 115
Chloroethane	20.0	18.3		ug/L		91	56 - 155
Chloroform	20.0	18.6		ug/L		93	84 - 116
Chloromethane	20.0	22.4		ug/L		112	45 - 138

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33961/4

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	21.4		ug/L		107	88 - 116
4-Chlorotoluene	20.0	21.3		ug/L		106	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	70 - 139
Dibromochloromethane	20.0	21.3		ug/L		107	83 - 132
1,2-Dibromoethane (EDB)	20.0	21.8		ug/L		109	82 - 125
Dibromomethane	20.0	20.2		ug/L		101	80 - 125
1,2-Dichlorobenzene	20.0	22.3		ug/L		111	84 - 128
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	85 - 120
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	20.0		ug/L		100	36 - 131
1,1-Dichloroethane	20.0	21.5		ug/L		108	81 - 120
1,2-Dichloroethane	20.0	17.4		ug/L		87	82 - 116
1,1-Dichloroethene	20.0	22.4		ug/L		112	83 - 120
cis-1,2-Dichloroethene	20.0	22.6		ug/L		113	81 - 124
trans-1,2-Dichloroethene	20.0	22.6		ug/L		113	81 - 127
1,2-Dichloropropane	20.0	22.4		ug/L		112	76 - 132
1,3-Dichloropropane	20.0	20.6		ug/L		103	74 - 122
2,2-Dichloropropane	20.0	20.2		ug/L		101	77 - 130
1,1-Dichloropropene	20.0	19.8		ug/L		99	81 - 115
cis-1,3-Dichloropropene	20.0	22.5		ug/L		112	74 - 129
trans-1,3-Dichloropropene	20.0	22.7		ug/L		113	78 - 126
Ethylbenzene	20.0	21.1		ug/L		106	89 - 117
Hexachlorobutadiene	20.0	19.2		ug/L		96	77 - 118
2-Hexanone (MBK)	20.0	21.8		ug/L		109	37 - 123
Isopropylbenzene	20.0	23.4		ug/L		117	83 - 117
4-Isopropyltoluene	20.0	22.7		ug/L		113	83 - 124
Methyl tert-butyl ether	20.0	21.5		ug/L		108	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	24.8	*+	ug/L		124	59 - 118
Methylene Chloride	20.0	22.0		ug/L		110	75 - 121
Naphthalene	20.0	20.5		ug/L		103	67 - 123
N-Propylbenzene	20.0	22.1		ug/L		110	84 - 128
Styrene	20.0	23.4		ug/L		117	78 - 127
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/L		100	91 - 118
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	77 - 129
Tetrachloroethene	20.0	20.6		ug/L		103	85 - 116
Toluene	20.0	20.6		ug/L		103	88 - 109
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		111	67 - 134
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	78 - 133
1,3,5-Trichlorobenzene	20.0	22.2		ug/L		111	77 - 127
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	83 - 124
1,1,2-Trichloroethane	20.0	21.6		ug/L		108	84 - 132
Trichloroethene	20.0	20.3		ug/L		102	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	18.7		ug/L		94	82 - 126
1,2,3-Trichloropropane	20.0	19.2		ug/L		96	77 - 124
1,2,4-Trimethylbenzene	20.0	23.2		ug/L		116	89 - 126
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		111	89 - 125
Vinyl chloride	20.0	21.6		ug/L		108	62 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCS 620-33961/4

Matrix: Water

Analysis Batch: 33961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylene	40.0	45.8		ug/L		115	85 - 123
o-Xylene	20.0	22.8		ug/L		114	85 - 119
Tetrahydrofuran	20.0	23.1		ug/L		116	60 - 133
Ethyl ether	20.0	20.0		ug/L		100	69 - 122
Tert-amyl methyl ether	20.0	21.4		ug/L		107	50 - 140
Ethyl tert-butyl ether	20.0	21.8		ug/L		109	60 - 131
di-Isopropyl ether	20.0	22.7		ug/L		113	67 - 125
tert-Butanol	200	255		ug/L		127	50 - 169
1,4-Dioxane	200	233		ug/L		117	28 - 150
trans-1,4-Dichloro-2-butene	20.0	29.5		ug/L		147	48 - 153
Ethanol	400	482		ug/L		121	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

Lab Sample ID: LCSD 620-33961/5

Matrix: Water

Analysis Batch: 33961

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.8		ug/L		94	85 - 124	0	20
Acetone	20.0	13.9		ug/L		69	14 - 133	11	20
Acrylonitrile	20.0	26.6		ug/L		133	62 - 134	9	20
Benzene	20.0	21.7		ug/L		108	86 - 111	1	20
Bromobenzene	20.0	20.0		ug/L		100	82 - 120	0	20
Bromochloromethane	20.0	21.4		ug/L		107	83 - 123	4	20
Bromodichloromethane	20.0	20.6		ug/L		103	83 - 137	2	20
Bromoform	20.0	23.0		ug/L		115	91 - 137	1	20
Bromomethane	20.0	17.4		ug/L		87	29 - 148	1	20
2-Butanone (MEK)	20.0	17.4		ug/L		87	10 - 200	1	20
n-Butylbenzene	20.0	21.8		ug/L		109	85 - 138	1	20
sec-Butylbenzene	20.0	22.6		ug/L		113	75 - 118	0	20
tert-Butylbenzene	20.0	23.0		ug/L		115	85 - 122	3	20
Carbon disulfide	20.0	20.8		ug/L		104	69 - 150	1	20
Carbon tetrachloride	20.0	18.9		ug/L		95	84 - 123	0	20
Chlorobenzene	20.0	20.7		ug/L		103	93 - 115	0	20
Chloroethane	20.0	17.5		ug/L		88	56 - 155	4	20
Chloroform	20.0	18.7		ug/L		94	84 - 116	1	20
Chloromethane	20.0	22.7		ug/L		114	45 - 138	1	20
2-Chlorotoluene	20.0	21.1		ug/L		105	88 - 116	1	20
4-Chlorotoluene	20.0	21.4		ug/L		107	81 - 128	1	20
1,2-Dibromo-3-Chloropropane	20.0	20.1		ug/L		101	70 - 139	1	20
Dibromochloromethane	20.0	21.9		ug/L		110	83 - 132	3	20
1,2-Dibromoethane (EDB)	20.0	22.5		ug/L		112	82 - 125	3	20
Dibromomethane	20.0	20.8		ug/L		104	80 - 125	3	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33961/5

Matrix: Water

Analysis Batch: 33961

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 Limit
1,2-Dichlorobenzene	20.0	22.8		ug/L		114	84 - 128	2	20
1,3-Dichlorobenzene	20.0	21.9		ug/L		109	85 - 120	1	20
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	86 - 116	1	20
Dichlorodifluoromethane (Freon 12)	20.0	20.5		ug/L		103	36 - 131	2	20
1,1-Dichloroethane	20.0	21.6		ug/L		108	81 - 120	0	20
1,2-Dichloroethane	20.0	17.9		ug/L		90	82 - 116	3	20
1,1-Dichloroethene	20.0	22.5		ug/L		113	83 - 120	1	20
cis-1,2-Dichloroethene	20.0	23.1		ug/L		115	81 - 124	2	20
trans-1,2-Dichloroethene	20.0	22.9		ug/L		114	81 - 127	1	20
1,2-Dichloropropane	20.0	23.4		ug/L		117	76 - 132	4	20
1,3-Dichloropropane	20.0	21.3		ug/L		106	74 - 122	3	20
2,2-Dichloropropane	20.0	20.4		ug/L		102	77 - 130	1	20
1,1-Dichloropropene	20.0	20.2		ug/L		101	81 - 115	2	20
cis-1,3-Dichloropropene	20.0	23.2		ug/L		116	74 - 129	3	20
trans-1,3-Dichloropropene	20.0	23.7		ug/L		118	78 - 126	4	20
Ethylbenzene	20.0	21.1		ug/L		105	89 - 117	0	20
Hexachlorobutadiene	20.0	19.8		ug/L		99	77 - 118	3	20
2-Hexanone (MBK)	20.0	22.2		ug/L		111	37 - 123	2	20
Isopropylbenzene	20.0	23.4		ug/L		117	83 - 117	0	20
4-Isopropyltoluene	20.0	22.5		ug/L		112	83 - 124	1	20
Methyl tert-butyl ether	20.0	22.0		ug/L		110	70 - 126	2	20
4-Methyl-2-pentanone (MIBK)	20.0	26.1	*+	ug/L		131	59 - 118	5	20
Methylene Chloride	20.0	22.0		ug/L		110	75 - 121	0	20
Naphthalene	20.0	21.2		ug/L		106	67 - 123	3	20
N-Propylbenzene	20.0	21.9		ug/L		109	84 - 128	1	20
Styrene	20.0	23.8		ug/L		119	78 - 127	2	20
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	91 - 118	1	20
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		103	77 - 129	2	20
Tetrachloroethene	20.0	21.2		ug/L		106	85 - 116	3	20
Toluene	20.0	21.1		ug/L		105	88 - 109	2	20
1,2,3-Trichlorobenzene	20.0	22.1		ug/L		110	67 - 134	1	20
1,2,4-Trichlorobenzene	20.0	21.7		ug/L		109	78 - 133	0	20
1,3,5-Trichlorobenzene	20.0	22.5		ug/L		112	77 - 127	1	20
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	83 - 124	1	20
1,1,2-Trichloroethane	20.0	22.1		ug/L		110	84 - 132	2	20
Trichloroethene	20.0	20.6		ug/L		103	74 - 118	1	20
Trichlorofluoromethane (Freon 11)	20.0	19.0		ug/L		95	82 - 126	1	20
1,2,3-Trichloropropane	20.0	19.6		ug/L		98	77 - 124	2	20
1,2,4-Trimethylbenzene	20.0	23.3		ug/L		117	89 - 126	1	20
1,3,5-Trimethylbenzene	20.0	22.2		ug/L		111	89 - 125	0	20
Vinyl chloride	20.0	21.7		ug/L		109	62 - 130	1	20
m,p-Xylene	40.0	45.8		ug/L		115	85 - 123	0	20
o-Xylene	20.0	23.1		ug/L		115	85 - 119	1	20
Tetrahydrofuran	20.0	24.4		ug/L		122	60 - 133	5	20
Ethyl ether	20.0	20.1		ug/L		101	69 - 122	1	20
Tert-amyl methyl ether	20.0	21.9		ug/L		109	50 - 140	2	20
Ethyl tert-butyl ether	20.0	22.2		ug/L		111	60 - 131	2	20

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

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

Lab Sample ID: LCSD 620-33961/5

Matrix: Water

Analysis Batch: 33961

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 Limit
di-Isopropyl ether	20.0	23.1		ug/L		116	67 - 125	2	20
tert-Butanol	200	273		ug/L		137	50 - 169	7	20
1,4-Dioxane	200	255		ug/L		127	28 - 150	9	20
trans-1,4-Dichloro-2-butene	20.0	29.6		ug/L		148	48 - 153	0	20
Ethanol	400	454		ug/L		113	47 - 170	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

GC/MS VOA

Pre Prep Batch: 33811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6	EA6/1R Day 60, 0.5x	Total/NA	Solid	Frozen Preserve	
620-18006-7	EA6/1R Day 60, 1x	Total/NA	Solid	Frozen Preserve	
620-18006-8	EA6/1R Day 60, 2x	Total/NA	Solid	Frozen Preserve	
620-18006-9	EA6/1R Day 60, 3x	Total/NA	Solid	Frozen Preserve	
620-18006-10	EA6/1R Day 60, ctrl	Total/NA	Solid	Frozen Preserve	
620-18006-11	EA6/1R Day 60b, 0.5x	Total/NA	Solid	Frozen Preserve	
620-18006-12	EA6/1R Day 60b, 1x	Total/NA	Solid	Frozen Preserve	
620-18006-13	EA6/1R Day 60b, 2x	Total/NA	Solid	Frozen Preserve	
620-18006-14	EA6/1R Day 60b, 3x	Total/NA	Solid	Frozen Preserve	
620-18006-15	EA6/1R Day 60b, ctrl	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 33829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6	EA6/1R Day 60, 0.5x	Total/NA	Solid	8260C	33852
620-18006-7	EA6/1R Day 60, 1x	Total/NA	Solid	8260C	33852
620-18006-8	EA6/1R Day 60, 2x	Total/NA	Solid	8260C	33852
620-18006-9	EA6/1R Day 60, 3x	Total/NA	Solid	8260C	33852
620-18006-10	EA6/1R Day 60, ctrl	Total/NA	Solid	8260C	33852
620-18006-11	EA6/1R Day 60b, 0.5x	Total/NA	Solid	8260C	33852
620-18006-12	EA6/1R Day 60b, 1x	Total/NA	Solid	8260C	33852
620-18006-13	EA6/1R Day 60b, 2x	Total/NA	Solid	8260C	33852
620-18006-14	EA6/1R Day 60b, 3x	Total/NA	Solid	8260C	33852
620-18006-15	EA6/1R Day 60b, ctrl	Total/NA	Solid	8260C	33852
MB 620-33852/3-A	Method Blank	Total/NA	Solid	8260C	33852
LCS 620-33852/1-A	Lab Control Sample	Total/NA	Solid	8260C	33852
LCSD 620-33852/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33852

Prep Batch: 33852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6	EA6/1R Day 60, 0.5x	Total/NA	Solid	5035	33811
620-18006-7	EA6/1R Day 60, 1x	Total/NA	Solid	5035	33811
620-18006-8	EA6/1R Day 60, 2x	Total/NA	Solid	5035	33811
620-18006-9	EA6/1R Day 60, 3x	Total/NA	Solid	5035	33811
620-18006-10	EA6/1R Day 60, ctrl	Total/NA	Solid	5035	33811
620-18006-11	EA6/1R Day 60b, 0.5x	Total/NA	Solid	5035	33811
620-18006-12	EA6/1R Day 60b, 1x	Total/NA	Solid	5035	33811
620-18006-13	EA6/1R Day 60b, 2x	Total/NA	Solid	5035	33811
620-18006-14	EA6/1R Day 60b, 3x	Total/NA	Solid	5035	33811
620-18006-15	EA6/1R Day 60b, ctrl	Total/NA	Solid	5035	33811
MB 620-33852/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33852/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33852/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Rhode Island

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

GC/MS VOA

Prep Batch: 33912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6 - ME	EA6/1R Day 60, 0.5x	Total/NA	Solid	5035	
620-18006-11 - ME	EA6/1R Day 60b, 0.5x	Total/NA	Solid	5035	
MB 620-33912/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 33913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6 - ME	EA6/1R Day 60, 0.5x	Total/NA	Solid	8260C	33912
620-18006-11 - ME	EA6/1R Day 60b, 0.5x	Total/NA	Solid	8260C	33912
MB 620-33912/3-A	Method Blank	Total/NA	Solid	8260C	33912
LCS 620-33912/1-A	Lab Control Sample	Total/NA	Solid	8260C	33912
LCSD 620-33912/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33912

Analysis Batch: 33953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-1	EA6/1R Day 60, 0.5x	Total/NA	Water	8260C	
620-18006-2	EA6/1R Day 60, 1x	Total/NA	Water	8260C	
620-18006-3	EA6/1R Day 60, 2x	Total/NA	Water	8260C	
620-18006-4	EA6/1R Day 60, 3x	Total/NA	Water	8260C	
620-18006-5	EA6/1R Day 60, ctrl	Total/NA	Water	8260C	
MB 620-33953/7	Method Blank	Total/NA	Water	8260C	
LCS 620-33953/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-33953/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 33961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-2 - DL	EA6/1R Day 60, 1x	Total/NA	Water	8260C	
620-18006-3 - DL	EA6/1R Day 60, 2x	Total/NA	Water	8260C	
620-18006-4 - DL	EA6/1R Day 60, 3x	Total/NA	Water	8260C	
620-18006-5 - DL	EA6/1R Day 60, ctrl	Total/NA	Water	8260C	
MB 620-33961/7	Method Blank	Total/NA	Water	8260C	
LCS 620-33961/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-33961/5	Lab Control Sample Dup	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 33832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18006-6	EA6/1R Day 60, 0.5x	Total/NA	Solid	Moisture	
620-18006-7	EA6/1R Day 60, 1x	Total/NA	Solid	Moisture	
620-18006-8	EA6/1R Day 60, 2x	Total/NA	Solid	Moisture	
620-18006-9	EA6/1R Day 60, 3x	Total/NA	Solid	Moisture	
620-18006-10	EA6/1R Day 60, ctrl	Total/NA	Solid	Moisture	
620-18006-11	EA6/1R Day 60b, 0.5x	Total/NA	Solid	Moisture	
620-18006-12	EA6/1R Day 60b, 1x	Total/NA	Solid	Moisture	
620-18006-13	EA6/1R Day 60b, 2x	Total/NA	Solid	Moisture	
620-18006-14	EA6/1R Day 60b, 3x	Total/NA	Solid	Moisture	
620-18006-15	EA6/1R Day 60b, ctrl	Total/NA	Solid	Moisture	

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x

Date Collected: 04/12/24 08:00

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		20	33953	CLR	EET RI	04/20/24 22:22

Client Sample ID: EA6/1R Day 60, 1x

Date Collected: 04/12/24 08:10

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	33953	CLR	EET RI	04/20/24 20:39
Total/NA	Analysis	8260C	DL	10	33961	CLR	EET RI	04/22/24 17:32

Client Sample ID: EA6/1R Day 60, 2x

Date Collected: 04/12/24 08:20

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	33953	CLR	EET RI	04/20/24 21:04
Total/NA	Analysis	8260C	DL	10	33961	CLR	EET RI	04/22/24 17:57

Client Sample ID: EA6/1R Day 60, 3x

Date Collected: 04/12/24 08:30

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	33953	CLR	EET RI	04/20/24 21:30
Total/NA	Analysis	8260C	DL	10	33961	CLR	EET RI	04/22/24 18:23

Client Sample ID: EA6/1R Day 60, ctrl

Date Collected: 04/12/24 08:40

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	33953	CLR	EET RI	04/20/24 21:56
Total/NA	Analysis	8260C	DL	10	33961	CLR	EET RI	04/22/24 18:49

Client Sample ID: EA6/1R Day 60, 0.5x

Date Collected: 04/12/24 08:02

Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 0.5x
Date Collected: 04/12/24 08:02
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-6
Matrix: Solid
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 17:51
Total/NA	Prep	5035	ME		33912	CLR	EET RI	04/19/24 11:31
Total/NA	Analysis	8260C	ME	2	33913	CLR	EET RI	04/19/24 13:11

Client Sample ID: EA6/1R Day 60, 1x
Date Collected: 04/12/24 08:12
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60, 1x
Date Collected: 04/12/24 08:12
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-7
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 18:16

Client Sample ID: EA6/1R Day 60, 2x
Date Collected: 04/12/24 08:22
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60, 2x
Date Collected: 04/12/24 08:22
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-8
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 18:41

Client Sample ID: EA6/1R Day 60, 3x
Date Collected: 04/12/24 08:32
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60, 3x
Date Collected: 04/12/24 08:32
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-9
Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 19:06

Client Sample ID: EA6/1R Day 60, ctrl
Date Collected: 04/12/24 08:42
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60, ctrl
Date Collected: 04/12/24 08:42
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-10
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 19:31

Client Sample ID: EA6/1R Day 60b, 0.5x
Date Collected: 04/12/24 08:04
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60b, 0.5x
Date Collected: 04/12/24 08:04
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-11
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 19:56
Total/NA	Prep	5035	ME		33912	CLR	EET RI	04/19/24 11:31
Total/NA	Analysis	8260C	ME	2	33913	CLR	EET RI	04/19/24 13:37

Client Sample ID: EA6/1R Day 60b, 1x
Date Collected: 04/12/24 08:14
Date Received: 04/15/24 16:42

Lab Sample ID: 620-18006-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, 1x

Lab Sample ID: 620-18006-12

Date Collected: 04/12/24 08:14

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 20:21

Client Sample ID: EA6/1R Day 60b, 2x

Lab Sample ID: 620-18006-13

Date Collected: 04/12/24 08:24

Matrix: Solid

Date Received: 04/15/24 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60b, 2x

Lab Sample ID: 620-18006-13

Date Collected: 04/12/24 08:24

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 20:46

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Date Collected: 04/12/24 08:34

Matrix: Solid

Date Received: 04/15/24 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Client Sample ID: EA6/1R Day 60b, 3x

Lab Sample ID: 620-18006-14

Date Collected: 04/12/24 08:34

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 21:11

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

Date Collected: 04/12/24 08:44

Matrix: Solid

Date Received: 04/15/24 16:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33832	MEM	EET RI	04/17/24 10:47

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Client Sample ID: EA6/1R Day 60b, ctrl

Lab Sample ID: 620-18006-15

Date Collected: 04/12/24 08:44

Matrix: Solid

Date Received: 04/15/24 16:42

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33811	KFS	EET RI	04/12/24 17:00
Total/NA	Prep	5035			33852	CLR	EET RI	04/17/24 13:13
Total/NA	Analysis	8260C		1	33829	CLR	EET RI	04/17/24 21:36

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

Accreditation/Certification Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	Tetrachloroethene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Rhode Island

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
Moisture	Percent Moisture	EPA	EET RI
5030C	Purge and Trap	SW846	EET RI
5035	Closed System Purge and Trap	SW846	EET RI
Frozen Preserve	Freezing Samples	None	EET RI

Protocol References:

EPA = US Environmental Protection Agency

None = None

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: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-18006-1	EA6/1R Day 60, 0.5x	Water	04/12/24 08:00	04/15/24 16:42
620-18006-2	EA6/1R Day 60, 1x	Water	04/12/24 08:10	04/15/24 16:42
620-18006-3	EA6/1R Day 60, 2x	Water	04/12/24 08:20	04/15/24 16:42
620-18006-4	EA6/1R Day 60, 3x	Water	04/12/24 08:30	04/15/24 16:42
620-18006-5	EA6/1R Day 60, ctrl	Water	04/12/24 08:40	04/15/24 16:42
620-18006-6	EA6/1R Day 60, 0.5x	Solid	04/12/24 08:02	04/15/24 16:42
620-18006-7	EA6/1R Day 60, 1x	Solid	04/12/24 08:12	04/15/24 16:42
620-18006-8	EA6/1R Day 60, 2x	Solid	04/12/24 08:22	04/15/24 16:42
620-18006-9	EA6/1R Day 60, 3x	Solid	04/12/24 08:32	04/15/24 16:42
620-18006-10	EA6/1R Day 60, ctrl	Solid	04/12/24 08:42	04/15/24 16:42
620-18006-11	EA6/1R Day 60b, 0.5x	Solid	04/12/24 08:04	04/15/24 16:42
620-18006-12	EA6/1R Day 60b, 1x	Solid	04/12/24 08:14	04/15/24 16:42
620-18006-13	EA6/1R Day 60b, 2x	Solid	04/12/24 08:24	04/15/24 16:42
620-18006-14	EA6/1R Day 60b, 3x	Solid	04/12/24 08:34	04/15/24 16:42
620-18006-15	EA6/1R Day 60b, ctrl	Solid	04/12/24 08:44	04/15/24 16:42



620-18006 Chain of Custody

Int Testing
ind

CHAIN OF CUSTODY RECORD

18006

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 1 of 3

Report To: Laurel Crawford (lcrawford@loureiro.com)		Invoice To: Accounts Payable (accountspayable@loureiro.com)		Project No: 026EE3 01	
Loureiro Engineering Associates, Inc.		Loureiro Engineering Associates, Inc.		Site Name: Zip Zip Mini Mart Site	
112 Corporate Drive, Unit 2		100 Northwest Drive		Location: Portsmouth State NH	
Portsmouth, NH 03801		Plainville, CT 06062		Sampler(s): Laurel Crawford	
Telephone #: 603-778-1100		P O No: 1260		Quote #: 1260	
Project Migr: Laurel Crawford		F=Field Filtered 1=Na ₂ SO ₄ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ OH 8=NaHSO ₄ 9=Deionized Water 10=H ₃ PO ₄ 11= 12=			
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water		O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas			
X1= X2= X3=					
G= Grab		C= Composite			
Lab ID:	Sample ID:	Date:	Time:	Matrix	Type
-1	EA6/1R Day 60, 0 5x	4/12/2024	8 00 AM	GW	1
-2	EA6/1R Day 60, 1x	4/12/2024	8 10 AM	GW	2
-3	EA6/1R Day 60, 2x	4/12/2024	8 20 AM	GW	1
-4	EA6/1R Day 60, 3x	4/12/2024	8 30 AM	GW	2
-5	EA6/1R Day 60, ctrl	4/12/2024	8 40 AM	GW	2
-6	EA6/1R Day 60, 0 5x	4/12/2024	8 02 AM	SO	3
-7	EA6/1R Day 60, 1x	4/12/2024	8 12 AM	SO	3
-8	EA6/1R Day 60, 2x	4/12/2024	8 22 AM	SO	3
-9	EA6/1R Day 60, 3x	4/12/2024	8 32 AM	SO	3
-10	EA6/1R Day 60, ctrl	4/12/2024	8 42 AM	SO	3
Relinquished by:		Received by:		Date:	Time:
[Signature]		[Signature]		4/12/24	1200
[Signature]		[Signature]		4/15/24	1600
Temp °C		Observed		4.0	
Temp °C		Corrected		4.0	
Temp °C		IR ID F		4.0	
Temp °C		Correction Factor		4.0	
Temp °C		Condition upon receipt:		Condition upon receipt:	
Temp °C		Custody Seals:		Custody Seals:	
Temp °C		Present		Present	
Temp °C		Intact		Intact	
Temp °C		Broken		Broken	
Temp °C		Refrigerated		Refrigerated	
Temp °C		Iced		Iced	
Temp °C		Soil Jar Frozen		Soil Jar Frozen	
Temp °C		DI VOA Frozen		DI VOA Frozen	
Temp °C		E-mail to		E-mail to	
Temp °C		lcrawford@loureiro.com, accdunne@loureiro.com		lcrawford@loureiro.com, accdunne@loureiro.com	
Temp °C		EDD format		EDD format	
Temp °C		Check if chlorinated		Check if chlorinated	
Temp °C		MA DEP MCP CAM Report?		MA DEP MCP CAM Report?	
Temp °C		CT DPH RCP Report?		CT DPH RCP Report?	
Temp °C		Standard		Standard	
Temp °C		No QC		No QC	
Temp °C		DQA*		DQA*	
Temp °C		ASP A*		ASP A*	
Temp °C		NJ Reduced*		NJ Reduced*	
Temp °C		Tier II*		Tier II*	
Temp °C		Tier IV*		Tier IV*	
Temp °C		Other		Other	
Temp °C		State-specific reporting standards		State-specific reporting standards	
Temp °C		QA/QC Reporting Notes:		QA/QC Reporting Notes:	
Temp °C		* additional charges may apply		* additional charges may apply	
Temp °C		soils were		soils were	
Temp °C		frozen for BT		frozen for BT	
Temp °C		preserved ones		preserved ones	

18006



Environment Testing
New England

CHAIN OF CUSTODY RECORD

Special Handling:

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Page 3 of 3

Report To Laurel Crawford (lcrawford@loureiro.com)

Loureiro Engineering Associates, Inc

112 Corporate Drive, Unit 2

Portsmouth, NH 03801

Telephone # 603-778-1100

Project Mgr Laurel Crawford

Invoice To Accounts Payable (accountspayable@loureiro.com)

Loureiro Engineering Associates, Inc

100 Northwest Drive

Plainville, CT 06062

P O No 1260 Quote # _____

Project No 026EE3 01

Site Name Zip Zip Mini Mart Site

Location Portsmouth

Sampler(s) Laurel Crawford

State NH

F=Field Filtered 1=Na₂SO₄ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= terracore kit 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type
-11	EA6/1R Day 60b, 0 5x	4/12/2024	8 04 AM	SO
-12	EA6/1R Day 60b, 1x	4/12/2024	8 14 AM	SO
-13	EA6/1R Day 60b, 2x	4/12/2024	8 24 AM	SO
-14	EA6/1R Day 60b, 3x	4/12/2024	8 34 AM	SO
-15	EA6/1R Day 60b, ctrl	4/12/2024	8 44 AM	SO

List Preservative Code below:

11 _____

Containers

of VOA Vials _____

of Amber Glass _____

of Clear Glass _____

of Plastic _____

8260C VOCs _____

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No

☐ Standard ☐ No QC

☐ DQA*

☐ ASP A* ☐ ASP B*

☐ NJ Reduced* ☐ NJ Full*

☐ Tier II* ☐ Tier IV*

☐ Other _____

State-specific reporting standards

Check if chlorinated

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Relinquished by:

Received by:

Temp °C

EDD format ☐

E-mail to lcrawford@loureiro.com, actume@loureiro.com

4/23/2024

Sample Shipping Address: 126 Myron Street • West Springfield, MA 01089 • 413-788-9018
Lab Address: 646 Camp Ave • North Kingstown, RI 02882

www.EurofinsUS.com/Spectrum

Rev. Jan 2020

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-18006-1

Login Number: 18006

List Source: Eurofins Rhode Island

List Number: 1

Creator: Makhoul, Elie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Laurel Crawford
Loureiro Engineering Associates
112 Corporate Drive #2
Portsmouth, New Hampshire 03801

Generated 5/1/2024 2:41:41 PM Revision 1

JOB DESCRIPTION

Zip Zip Mini Mart - Portsmouth, NH

JOB NUMBER

620-18156-1

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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5/1/2024 2:41:41 PM
Revision 1

Authorized for release by
Becky Mason, Project Manager II
Becky.Mason@et.eurofinsus.com
(413)572-4000

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Definitions/Glossary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Job ID: 620-18156-1

Eurofins Rhode Island

Job Narrative 620-18156-1

Revised report: Updated sample IDs for 620-18156-11-15 per client request. The COC was incorrect for these samples.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/19/2024 5:05 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 0.8°C.

GC/MS VOA

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene, 1,2,3-Trichlorobenzene, Hexachlorobutadiene, and 1,2,4-Trichlorobenzene. Affected analyte (biased high): trans-1,4-Dichloro-2-butene. (CCVIS 620-34164/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-34164 recovered outside in-house control limits for the following analytes: Carbon tetrachloride and 1,2-Dichloroethane. These analytes were biased low in the LCS but recovered within 70-130%. According to 8260C requirements, analytes can recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-34164 recovered outside control limits for the following analytes: 1,1,2-Trichlorotrifluoroethane (Freon 113), Carbon tetrachloride, 1,2-Dichloroethane, 1,1,1,2-Tetrachloroethane and Trichlorofluoromethane (Freon 11). These analytes were biased low in the LCSD but recovered within 70-130%. According to 8260C requirements, analytes can recover outside in-house control limits as long as recovery is within 70-130%; therefore, the data have been reported.

Method 8260C: The following samples were diluted due to the nature of the sample matrix (yellow tint, strong odor, and excessive foaming of the matrix): 4R Day 60, 0.5x (620-18156-1), 4R Day 60, 1x (620-18156-2), 4R Day 60, 2x (620-18156-3) and 4R Day 60, 3x (620-18156-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-34205 and analytical batch 620-34206 recovered outside control limits for the following analyte: Chloromethane, which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-34206 exhibited % difference of > 20% for the following analyte: Naphthalene; 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, the continuing LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): trans-1,4-Dichloro-2-butene and Acrylonitrile. (CCVIS 620-34206/3)

Eurofins Rhode Island

Case Narrative

Client: Loureiro Engineering Associates
Project: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Job ID: 620-18156-1 (Continued)

Eurofins Rhode Island

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-33991 and analytical batch 620-33992 recovered outside control limits for the following analyte: 2-Hexanone (MBK), which has been identified as a poor performing analyte when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-33991 and analytical batch 620-33992 recovered outside control limits for the following analytes: 2-Butanone (MEK) and 2-Hexanone (MBK). 2-Butanone (MEK) and 2-Hexanone (MBK) have been identified as poor performing analytes when analyzed using this method. According to 8260C requirements, poor performers are allowed to recover within 50-150%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-33991 and analytical batch 620-33992 recovered outside control limits for the following analyte: Hexachlorobutadiene.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-33991 and analytical batch 620-33992 recovered outside control limits for the following analyte: Hexachlorobutadiene. This analyte was biased low in the LCSD and was not detected in the associated samples. According to 8260C requirements, <10% of analytes are allowed to recover outside control limits; therefore, the data have been reported.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased high): trans-1,4-Dichloro-2-butene, 1,1,2-Trichloroethane, 1,1-Dichloroethane, and Trichlorofluoromethane. (CCVIS 620-33992/4)

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

General Chemistry

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-33978 was outside control limits. Sample non-homogeneity is suspected.

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

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		100	ug/L	10		8260C	Total/NA
Benzene	610		10	ug/L	10		8260C	Total/NA
Carbon disulfide	74		20	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	44		10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	320		100	ug/L	10		8260C	Total/NA
Benzene	140		10	ug/L	10		8260C	Total/NA
Carbon disulfide	39		20	ug/L	10		8260C	Total/NA
Chloromethane	28		20	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	27		10	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		10	ug/L	10		8260C	Total/NA
Chloromethane	50		20	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 60, 3x

Lab Sample ID: 620-18156-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	190		100	ug/L	10		8260C	Total/NA
Chloromethane	170		20	ug/L	10		8260C	Total/NA

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.3		1.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	24		1.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4R Day 60b, 0.5x

Lab Sample ID: 620-18156-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	280	E	5.1	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	120		10	ug/Kg	1	✱	8260C	Total/NA
Methyl tert-butyl ether	5.7		5.1	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	670		48	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	270		97	ug/Kg	1	✱	8260C	Total/NA
Naphthalene - ME	61		48	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60b, 1x

Lab Sample ID: 620-18156-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	87		4.0	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	72		8.0	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60b, 2x

Lab Sample ID: 620-18156-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	56		56	ug/Kg	1	✱	8260C	Total/NA
Benzene	57		5.6	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	52		11	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Detection Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 2x (Continued)

Lab Sample ID: 620-18156-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	33		11	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60b, 3x

Lab Sample ID: 620-18156-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	66		36	ug/Kg	1	✱	8260C	Total/NA
Benzene	33		3.6	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	10	*-	7.3	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	16		7.3	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	67		7.3	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60b, ctrl

Lab Sample ID: 620-18156-10

No Detections.

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	220	E	4.7	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	100		9.4	ug/Kg	1	✱	8260C	Total/NA
Benzene - ME	1600		43	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide - ME	1200		85	ug/Kg	1	✱	8260C	Total/NA
Naphthalene - ME	44		43	ug/Kg	1	✱	8260C	Total/NA
N-Propylbenzene - ME	44		43	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		3.4	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	97		6.8	ug/Kg	1	✱	8260C	Total/NA
Methyl tert-butyl ether	5.7		3.4	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		45	ug/Kg	1	✱	8260C	Total/NA
Benzene	65		4.5	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	52		9.1	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	33		9.1	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	63		32	ug/Kg	1	✱	8260C	Total/NA
Benzene	30		3.2	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	10	*-	6.3	ug/Kg	1	✱	8260C	Total/NA
Carbon disulfide	15		6.3	ug/Kg	1	✱	8260C	Total/NA
Chloromethane	63		6.3	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-1

Date Collected: 04/15/24 08:50

Matrix: Water

Date Received: 04/19/24 17:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	10	ug/L			04/26/24 23:38	10
Acetone	220		100	ug/L			04/26/24 23:38	10
Acrylonitrile	ND		10	ug/L			04/26/24 23:38	10
Benzene	610		10	ug/L			04/26/24 23:38	10
Bromobenzene	ND		10	ug/L			04/26/24 23:38	10
Bromochloromethane	ND		10	ug/L			04/26/24 23:38	10
Bromodichloromethane	ND		5.0	ug/L			04/26/24 23:38	10
Bromoform	ND		10	ug/L			04/26/24 23:38	10
Bromomethane	ND		20	ug/L			04/26/24 23:38	10
2-Butanone (MEK)	ND		20	ug/L			04/26/24 23:38	10
n-Butylbenzene	ND		10	ug/L			04/26/24 23:38	10
sec-Butylbenzene	ND		10	ug/L			04/26/24 23:38	10
tert-Butylbenzene	ND		10	ug/L			04/26/24 23:38	10
Carbon disulfide	74		20	ug/L			04/26/24 23:38	10
Carbon tetrachloride	ND	*-	10	ug/L			04/26/24 23:38	10
Chlorobenzene	ND		10	ug/L			04/26/24 23:38	10
Chloroethane	ND		20	ug/L			04/26/24 23:38	10
Chloroform	ND		10	ug/L			04/26/24 23:38	10
Chloromethane	ND		20	ug/L			04/26/24 23:38	10
2-Chlorotoluene	ND		10	ug/L			04/26/24 23:38	10
4-Chlorotoluene	ND		10	ug/L			04/26/24 23:38	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			04/26/24 23:38	10
Dibromochloromethane	ND		5.0	ug/L			04/26/24 23:38	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			04/26/24 23:38	10
Dibromomethane	ND		10	ug/L			04/26/24 23:38	10
1,2-Dichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
1,3-Dichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
1,4-Dichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			04/26/24 23:38	10
1,1-Dichloroethane	ND		10	ug/L			04/26/24 23:38	10
1,2-Dichloroethane	ND	*-	10	ug/L			04/26/24 23:38	10
1,1-Dichloroethene	ND		10	ug/L			04/26/24 23:38	10
cis-1,2-Dichloroethene	ND		10	ug/L			04/26/24 23:38	10
trans-1,2-Dichloroethene	ND		10	ug/L			04/26/24 23:38	10
1,2-Dichloropropane	ND		10	ug/L			04/26/24 23:38	10
1,3-Dichloropropane	ND		10	ug/L			04/26/24 23:38	10
2,2-Dichloropropane	ND		10	ug/L			04/26/24 23:38	10
1,1-Dichloropropene	ND		10	ug/L			04/26/24 23:38	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			04/26/24 23:38	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			04/26/24 23:38	10
Ethylbenzene	ND		10	ug/L			04/26/24 23:38	10
Hexachlorobutadiene	ND		10	ug/L			04/26/24 23:38	10
2-Hexanone (MBK)	ND		20	ug/L			04/26/24 23:38	10
Isopropylbenzene	ND		10	ug/L			04/26/24 23:38	10
4-Isopropyltoluene	ND		10	ug/L			04/26/24 23:38	10
Methyl tert-butyl ether	44		10	ug/L			04/26/24 23:38	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			04/26/24 23:38	10
Methylene Chloride	ND		20	ug/L			04/26/24 23:38	10
Naphthalene	ND		20	ug/L			04/26/24 23:38	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-1

Date Collected: 04/15/24 08:50

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		10	ug/L			04/26/24 23:38	10
Styrene	ND		10	ug/L			04/26/24 23:38	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			04/26/24 23:38	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			04/26/24 23:38	10
Tetrachloroethene	ND		10	ug/L			04/26/24 23:38	10
Toluene	ND		10	ug/L			04/26/24 23:38	10
1,2,3-Trichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
1,2,4-Trichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
1,3,5-Trichlorobenzene	ND		10	ug/L			04/26/24 23:38	10
1,1,1-Trichloroethane	ND		10	ug/L			04/26/24 23:38	10
1,1,2-Trichloroethane	ND		10	ug/L			04/26/24 23:38	10
Trichloroethene	ND		10	ug/L			04/26/24 23:38	10
Trichlorofluoromethane (Freon 11)	ND	*-	10	ug/L			04/26/24 23:38	10
1,2,3-Trichloropropane	ND		10	ug/L			04/26/24 23:38	10
1,2,4-Trimethylbenzene	ND		10	ug/L			04/26/24 23:38	10
1,3,5-Trimethylbenzene	ND		10	ug/L			04/26/24 23:38	10
Vinyl chloride	ND		10	ug/L			04/26/24 23:38	10
m,p-Xylene	ND		10	ug/L			04/26/24 23:38	10
o-Xylene	ND		10	ug/L			04/26/24 23:38	10
Tetrahydrofuran	ND		20	ug/L			04/26/24 23:38	10
Ethyl ether	ND		10	ug/L			04/26/24 23:38	10
Tert-amyl methyl ether	ND		10	ug/L			04/26/24 23:38	10
Ethyl tert-butyl ether	ND		10	ug/L			04/26/24 23:38	10
di-Isopropyl ether	ND		10	ug/L			04/26/24 23:38	10
tert-Butanol	ND		100	ug/L			04/26/24 23:38	10
1,4-Dioxane	ND		500	ug/L			04/26/24 23:38	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			04/26/24 23:38	10
Ethanol	ND		2000	ug/L			04/26/24 23:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130		04/26/24 23:38	10
Toluene-d8 (Surr)	98		70 - 130		04/26/24 23:38	10
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		04/26/24 23:38	10
Dibromofluoromethane (Surr)	92		70 - 130		04/26/24 23:38	10

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-2

Date Collected: 04/15/24 09:00

Matrix: Water

Date Received: 04/19/24 17:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	10	ug/L			04/27/24 00:03	10
Acetone	320		100	ug/L			04/27/24 00:03	10
Acrylonitrile	ND		10	ug/L			04/27/24 00:03	10
Benzene	140		10	ug/L			04/27/24 00:03	10
Bromobenzene	ND		10	ug/L			04/27/24 00:03	10
Bromochloromethane	ND		10	ug/L			04/27/24 00:03	10
Bromodichloromethane	ND		5.0	ug/L			04/27/24 00:03	10
Bromoform	ND		10	ug/L			04/27/24 00:03	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-2

Date Collected: 04/15/24 09:00

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		20	ug/L			04/27/24 00:03	10
2-Butanone (MEK)	ND		20	ug/L			04/27/24 00:03	10
n-Butylbenzene	ND		10	ug/L			04/27/24 00:03	10
sec-Butylbenzene	ND		10	ug/L			04/27/24 00:03	10
tert-Butylbenzene	ND		10	ug/L			04/27/24 00:03	10
Carbon disulfide	39		20	ug/L			04/27/24 00:03	10
Carbon tetrachloride	ND	*-	10	ug/L			04/27/24 00:03	10
Chlorobenzene	ND		10	ug/L			04/27/24 00:03	10
Chloroethane	ND		20	ug/L			04/27/24 00:03	10
Chloroform	ND		10	ug/L			04/27/24 00:03	10
Chloromethane	28		20	ug/L			04/27/24 00:03	10
2-Chlorotoluene	ND		10	ug/L			04/27/24 00:03	10
4-Chlorotoluene	ND		10	ug/L			04/27/24 00:03	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			04/27/24 00:03	10
Dibromochloromethane	ND		5.0	ug/L			04/27/24 00:03	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			04/27/24 00:03	10
Dibromomethane	ND		10	ug/L			04/27/24 00:03	10
1,2-Dichlorobenzene	ND		10	ug/L			04/27/24 00:03	10
1,3-Dichlorobenzene	ND		10	ug/L			04/27/24 00:03	10
1,4-Dichlorobenzene	ND		10	ug/L			04/27/24 00:03	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			04/27/24 00:03	10
1,1-Dichloroethane	ND		10	ug/L			04/27/24 00:03	10
1,2-Dichloroethane	ND	*-	10	ug/L			04/27/24 00:03	10
1,1-Dichloroethene	ND		10	ug/L			04/27/24 00:03	10
cis-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:03	10
trans-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:03	10
1,2-Dichloropropane	ND		10	ug/L			04/27/24 00:03	10
1,3-Dichloropropane	ND		10	ug/L			04/27/24 00:03	10
2,2-Dichloropropane	ND		10	ug/L			04/27/24 00:03	10
1,1-Dichloropropene	ND		10	ug/L			04/27/24 00:03	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:03	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:03	10
Ethylbenzene	ND		10	ug/L			04/27/24 00:03	10
Hexachlorobutadiene	ND		10	ug/L			04/27/24 00:03	10
2-Hexanone (MBK)	ND		20	ug/L			04/27/24 00:03	10
Isopropylbenzene	ND		10	ug/L			04/27/24 00:03	10
4-Isopropyltoluene	ND		10	ug/L			04/27/24 00:03	10
Methyl tert-butyl ether	27		10	ug/L			04/27/24 00:03	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			04/27/24 00:03	10
Methylene Chloride	ND		20	ug/L			04/27/24 00:03	10
Naphthalene	ND		20	ug/L			04/27/24 00:03	10
N-Propylbenzene	ND		10	ug/L			04/27/24 00:03	10
Styrene	ND		10	ug/L			04/27/24 00:03	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			04/27/24 00:03	10
1,1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			04/27/24 00:03	10
Tetrachloroethene	ND		10	ug/L			04/27/24 00:03	10
Toluene	ND		10	ug/L			04/27/24 00:03	10
1,2,3-Trichlorobenzene	ND		10	ug/L			04/27/24 00:03	10
1,2,4-Trichlorobenzene	ND		10	ug/L			04/27/24 00:03	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-2

Date Collected: 04/15/24 09:00

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trichlorobenzene	ND		10	ug/L			04/27/24 00:03	10
1,1,1-Trichloroethane	ND		10	ug/L			04/27/24 00:03	10
1,1,2-Trichloroethane	ND		10	ug/L			04/27/24 00:03	10
Trichloroethene	ND		10	ug/L			04/27/24 00:03	10
Trichlorofluoromethane (Freon 11)	ND	*-	10	ug/L			04/27/24 00:03	10
1,2,3-Trichloropropane	ND		10	ug/L			04/27/24 00:03	10
1,2,4-Trimethylbenzene	ND		10	ug/L			04/27/24 00:03	10
1,3,5-Trimethylbenzene	ND		10	ug/L			04/27/24 00:03	10
Vinyl chloride	ND		10	ug/L			04/27/24 00:03	10
m,p-Xylene	ND		10	ug/L			04/27/24 00:03	10
o-Xylene	ND		10	ug/L			04/27/24 00:03	10
Tetrahydrofuran	ND		20	ug/L			04/27/24 00:03	10
Ethyl ether	ND		10	ug/L			04/27/24 00:03	10
Tert-amyl methyl ether	ND		10	ug/L			04/27/24 00:03	10
Ethyl tert-butyl ether	ND		10	ug/L			04/27/24 00:03	10
di-Isopropyl ether	ND		10	ug/L			04/27/24 00:03	10
tert-Butanol	ND		100	ug/L			04/27/24 00:03	10
1,4-Dioxane	ND		500	ug/L			04/27/24 00:03	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			04/27/24 00:03	10
Ethanol	ND		2000	ug/L			04/27/24 00:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		04/27/24 00:03	10
Toluene-d8 (Surr)	99		70 - 130		04/27/24 00:03	10
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/27/24 00:03	10
Dibromofluoromethane (Surr)	95		70 - 130		04/27/24 00:03	10

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-3

Date Collected: 04/15/24 09:10

Matrix: Water

Date Received: 04/19/24 17:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	10	ug/L			04/27/24 00:29	10
Acetone	ND		100	ug/L			04/27/24 00:29	10
Acrylonitrile	ND		10	ug/L			04/27/24 00:29	10
Benzene	12		10	ug/L			04/27/24 00:29	10
Bromobenzene	ND		10	ug/L			04/27/24 00:29	10
Bromochloromethane	ND		10	ug/L			04/27/24 00:29	10
Bromodichloromethane	ND		5.0	ug/L			04/27/24 00:29	10
Bromoform	ND		10	ug/L			04/27/24 00:29	10
Bromomethane	ND		20	ug/L			04/27/24 00:29	10
2-Butanone (MEK)	ND		20	ug/L			04/27/24 00:29	10
n-Butylbenzene	ND		10	ug/L			04/27/24 00:29	10
sec-Butylbenzene	ND		10	ug/L			04/27/24 00:29	10
tert-Butylbenzene	ND		10	ug/L			04/27/24 00:29	10
Carbon disulfide	ND		20	ug/L			04/27/24 00:29	10
Carbon tetrachloride	ND	*-	10	ug/L			04/27/24 00:29	10
Chlorobenzene	ND		10	ug/L			04/27/24 00:29	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-3

Date Collected: 04/15/24 09:10

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		20	ug/L			04/27/24 00:29	10
Chloroform	ND		10	ug/L			04/27/24 00:29	10
Chloromethane	50		20	ug/L			04/27/24 00:29	10
2-Chlorotoluene	ND		10	ug/L			04/27/24 00:29	10
4-Chlorotoluene	ND		10	ug/L			04/27/24 00:29	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			04/27/24 00:29	10
Dibromochloromethane	ND		5.0	ug/L			04/27/24 00:29	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			04/27/24 00:29	10
Dibromomethane	ND		10	ug/L			04/27/24 00:29	10
1,2-Dichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
1,3-Dichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
1,4-Dichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			04/27/24 00:29	10
1,1-Dichloroethane	ND		10	ug/L			04/27/24 00:29	10
1,2-Dichloroethane	ND	*-	10	ug/L			04/27/24 00:29	10
1,1-Dichloroethene	ND		10	ug/L			04/27/24 00:29	10
cis-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:29	10
trans-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:29	10
1,2-Dichloropropane	ND		10	ug/L			04/27/24 00:29	10
1,3-Dichloropropane	ND		10	ug/L			04/27/24 00:29	10
2,2-Dichloropropane	ND		10	ug/L			04/27/24 00:29	10
1,1-Dichloropropene	ND		10	ug/L			04/27/24 00:29	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:29	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:29	10
Ethylbenzene	ND		10	ug/L			04/27/24 00:29	10
Hexachlorobutadiene	ND		10	ug/L			04/27/24 00:29	10
2-Hexanone (MBK)	ND		20	ug/L			04/27/24 00:29	10
Isopropylbenzene	ND		10	ug/L			04/27/24 00:29	10
4-Isopropyltoluene	ND		10	ug/L			04/27/24 00:29	10
Methyl tert-butyl ether	ND		10	ug/L			04/27/24 00:29	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			04/27/24 00:29	10
Methylene Chloride	ND		20	ug/L			04/27/24 00:29	10
Naphthalene	ND		20	ug/L			04/27/24 00:29	10
N-Propylbenzene	ND		10	ug/L			04/27/24 00:29	10
Styrene	ND		10	ug/L			04/27/24 00:29	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			04/27/24 00:29	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			04/27/24 00:29	10
Tetrachloroethene	ND		10	ug/L			04/27/24 00:29	10
Toluene	ND		10	ug/L			04/27/24 00:29	10
1,2,3-Trichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
1,2,4-Trichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
1,3,5-Trichlorobenzene	ND		10	ug/L			04/27/24 00:29	10
1,1,1-Trichloroethane	ND		10	ug/L			04/27/24 00:29	10
1,1,2-Trichloroethane	ND		10	ug/L			04/27/24 00:29	10
Trichloroethene	ND		10	ug/L			04/27/24 00:29	10
Trichlorofluoromethane (Freon 11)	ND	*-	10	ug/L			04/27/24 00:29	10
1,2,3-Trichloropropane	ND		10	ug/L			04/27/24 00:29	10
1,2,4-Trimethylbenzene	ND		10	ug/L			04/27/24 00:29	10
1,3,5-Trimethylbenzene	ND		10	ug/L			04/27/24 00:29	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:10

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		10	ug/L			04/27/24 00:29	10
m,p-Xylene	ND		10	ug/L			04/27/24 00:29	10
o-Xylene	ND		10	ug/L			04/27/24 00:29	10
Tetrahydrofuran	ND		20	ug/L			04/27/24 00:29	10
Ethyl ether	ND		10	ug/L			04/27/24 00:29	10
Tert-amyl methyl ether	ND		10	ug/L			04/27/24 00:29	10
Ethyl tert-butyl ether	ND		10	ug/L			04/27/24 00:29	10
di-Isopropyl ether	ND		10	ug/L			04/27/24 00:29	10
tert-Butanol	ND		100	ug/L			04/27/24 00:29	10
1,4-Dioxane	ND		500	ug/L			04/27/24 00:29	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			04/27/24 00:29	10
Ethanol	ND		2000	ug/L			04/27/24 00:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		04/27/24 00:29	10
Toluene-d8 (Surr)	99		70 - 130		04/27/24 00:29	10
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		04/27/24 00:29	10
Dibromofluoromethane (Surr)	94		70 - 130		04/27/24 00:29	10

Client Sample ID: 4R Day 60, 3x

Date Collected: 04/15/24 09:20

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	10	ug/L			04/27/24 00:55	10
Acetone	190		100	ug/L			04/27/24 00:55	10
Acrylonitrile	ND		10	ug/L			04/27/24 00:55	10
Benzene	ND		10	ug/L			04/27/24 00:55	10
Bromobenzene	ND		10	ug/L			04/27/24 00:55	10
Bromochloromethane	ND		10	ug/L			04/27/24 00:55	10
Bromodichloromethane	ND		5.0	ug/L			04/27/24 00:55	10
Bromoform	ND		10	ug/L			04/27/24 00:55	10
Bromomethane	ND		20	ug/L			04/27/24 00:55	10
2-Butanone (MEK)	ND		20	ug/L			04/27/24 00:55	10
n-Butylbenzene	ND		10	ug/L			04/27/24 00:55	10
sec-Butylbenzene	ND		10	ug/L			04/27/24 00:55	10
tert-Butylbenzene	ND		10	ug/L			04/27/24 00:55	10
Carbon disulfide	ND		20	ug/L			04/27/24 00:55	10
Carbon tetrachloride	ND	*-	10	ug/L			04/27/24 00:55	10
Chlorobenzene	ND		10	ug/L			04/27/24 00:55	10
Chloroethane	ND		20	ug/L			04/27/24 00:55	10
Chloroform	ND		10	ug/L			04/27/24 00:55	10
Chloromethane	170		20	ug/L			04/27/24 00:55	10
2-Chlorotoluene	ND		10	ug/L			04/27/24 00:55	10
4-Chlorotoluene	ND		10	ug/L			04/27/24 00:55	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			04/27/24 00:55	10
Dibromochloromethane	ND		5.0	ug/L			04/27/24 00:55	10
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			04/27/24 00:55	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 3x

Lab Sample ID: 620-18156-4

Date Collected: 04/15/24 09:20

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		10	ug/L			04/27/24 00:55	10
1,2-Dichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
1,3-Dichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
1,4-Dichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
Dichlorodifluoromethane (Freon 12)	ND		20	ug/L			04/27/24 00:55	10
1,1-Dichloroethane	ND		10	ug/L			04/27/24 00:55	10
1,2-Dichloroethane	ND	*-	10	ug/L			04/27/24 00:55	10
1,1-Dichloroethene	ND		10	ug/L			04/27/24 00:55	10
cis-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:55	10
trans-1,2-Dichloroethene	ND		10	ug/L			04/27/24 00:55	10
1,2-Dichloropropane	ND		10	ug/L			04/27/24 00:55	10
1,3-Dichloropropane	ND		10	ug/L			04/27/24 00:55	10
2,2-Dichloropropane	ND		10	ug/L			04/27/24 00:55	10
1,1-Dichloropropene	ND		10	ug/L			04/27/24 00:55	10
cis-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:55	10
trans-1,3-Dichloropropene	ND		5.0	ug/L			04/27/24 00:55	10
Ethylbenzene	ND		10	ug/L			04/27/24 00:55	10
Hexachlorobutadiene	ND		10	ug/L			04/27/24 00:55	10
2-Hexanone (MBK)	ND		20	ug/L			04/27/24 00:55	10
Isopropylbenzene	ND		10	ug/L			04/27/24 00:55	10
4-Isopropyltoluene	ND		10	ug/L			04/27/24 00:55	10
Methyl tert-butyl ether	ND		10	ug/L			04/27/24 00:55	10
4-Methyl-2-pentanone (MIBK)	ND		20	ug/L			04/27/24 00:55	10
Methylene Chloride	ND		20	ug/L			04/27/24 00:55	10
Naphthalene	ND		20	ug/L			04/27/24 00:55	10
N-Propylbenzene	ND		10	ug/L			04/27/24 00:55	10
Styrene	ND		10	ug/L			04/27/24 00:55	10
1,1,1,2-Tetrachloroethane	ND	*-	10	ug/L			04/27/24 00:55	10
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			04/27/24 00:55	10
Tetrachloroethene	ND		10	ug/L			04/27/24 00:55	10
Toluene	ND		10	ug/L			04/27/24 00:55	10
1,2,3-Trichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
1,2,4-Trichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
1,3,5-Trichlorobenzene	ND		10	ug/L			04/27/24 00:55	10
1,1,1-Trichloroethane	ND		10	ug/L			04/27/24 00:55	10
1,1,2-Trichloroethane	ND		10	ug/L			04/27/24 00:55	10
Trichloroethene	ND		10	ug/L			04/27/24 00:55	10
Trichlorofluoromethane (Freon 11)	ND	*-	10	ug/L			04/27/24 00:55	10
1,2,3-Trichloropropane	ND		10	ug/L			04/27/24 00:55	10
1,2,4-Trimethylbenzene	ND		10	ug/L			04/27/24 00:55	10
1,3,5-Trimethylbenzene	ND		10	ug/L			04/27/24 00:55	10
Vinyl chloride	ND		10	ug/L			04/27/24 00:55	10
m,p-Xylene	ND		10	ug/L			04/27/24 00:55	10
o-Xylene	ND		10	ug/L			04/27/24 00:55	10
Tetrahydrofuran	ND		20	ug/L			04/27/24 00:55	10
Ethyl ether	ND		10	ug/L			04/27/24 00:55	10
Tert-amyl methyl ether	ND		10	ug/L			04/27/24 00:55	10
Ethyl tert-butyl ether	ND		10	ug/L			04/27/24 00:55	10
di-Isopropyl ether	ND		10	ug/L			04/27/24 00:55	10

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 3x

Lab Sample ID: 620-18156-4

Date Collected: 04/15/24 09:20

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		100	ug/L			04/27/24 00:55	10
1,4-Dioxane	ND		500	ug/L			04/27/24 00:55	10
trans-1,4-Dichloro-2-butene	ND		50	ug/L			04/27/24 00:55	10
Ethanol	ND		2000	ug/L			04/27/24 00:55	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/27/24 00:55	10
Toluene-d8 (Surr)	100		70 - 130				04/27/24 00:55	10
1,2-Dichloroethane-d4 (Surr)	89		70 - 130				04/27/24 00:55	10
Dibromofluoromethane (Surr)	94		70 - 130				04/27/24 00:55	10

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-5

Date Collected: 04/15/24 09:30

Matrix: Water

Date Received: 04/19/24 17:05

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*-	1.0	ug/L			04/26/24 23:12	1
Acetone	ND		10	ug/L			04/26/24 23:12	1
Acrylonitrile	ND		1.0	ug/L			04/26/24 23:12	1
Benzene	9.3		1.0	ug/L			04/26/24 23:12	1
Bromobenzene	ND		1.0	ug/L			04/26/24 23:12	1
Bromochloromethane	ND		1.0	ug/L			04/26/24 23:12	1
Bromodichloromethane	ND		0.50	ug/L			04/26/24 23:12	1
Bromoform	ND		1.0	ug/L			04/26/24 23:12	1
Bromomethane	ND		2.0	ug/L			04/26/24 23:12	1
2-Butanone (MEK)	ND		2.0	ug/L			04/26/24 23:12	1
n-Butylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
sec-Butylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
tert-Butylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
Carbon disulfide	ND		2.0	ug/L			04/26/24 23:12	1
Carbon tetrachloride	ND	*-	1.0	ug/L			04/26/24 23:12	1
Chlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
Chloroethane	ND		2.0	ug/L			04/26/24 23:12	1
Chloroform	ND		1.0	ug/L			04/26/24 23:12	1
Chloromethane	ND		2.0	ug/L			04/26/24 23:12	1
2-Chlorotoluene	ND		1.0	ug/L			04/26/24 23:12	1
4-Chlorotoluene	ND		1.0	ug/L			04/26/24 23:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/26/24 23:12	1
Dibromochloromethane	ND		0.50	ug/L			04/26/24 23:12	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/26/24 23:12	1
Dibromomethane	ND		1.0	ug/L			04/26/24 23:12	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/26/24 23:12	1
1,1-Dichloroethane	ND		1.0	ug/L			04/26/24 23:12	1
1,2-Dichloroethane	ND	*-	1.0	ug/L			04/26/24 23:12	1
1,1-Dichloroethene	ND		1.0	ug/L			04/26/24 23:12	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-5

Date Collected: 04/15/24 09:30

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/26/24 23:12	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/26/24 23:12	1
1,2-Dichloropropane	ND		1.0	ug/L			04/26/24 23:12	1
1,3-Dichloropropane	ND		1.0	ug/L			04/26/24 23:12	1
2,2-Dichloropropane	ND		1.0	ug/L			04/26/24 23:12	1
1,1-Dichloropropene	ND		1.0	ug/L			04/26/24 23:12	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/26/24 23:12	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/26/24 23:12	1
Ethylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
Hexachlorobutadiene	ND		1.0	ug/L			04/26/24 23:12	1
2-Hexanone (MBK)	ND		2.0	ug/L			04/26/24 23:12	1
Isopropylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
4-Isopropyltoluene	ND		1.0	ug/L			04/26/24 23:12	1
Methyl tert-butyl ether	24		1.0	ug/L			04/26/24 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			04/26/24 23:12	1
Methylene Chloride	ND		2.0	ug/L			04/26/24 23:12	1
Naphthalene	ND		2.0	ug/L			04/26/24 23:12	1
N-Propylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
Styrene	ND		1.0	ug/L			04/26/24 23:12	1
1,1,1,2-Tetrachloroethane	ND	*	1.0	ug/L			04/26/24 23:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/26/24 23:12	1
Tetrachloroethene	ND		1.0	ug/L			04/26/24 23:12	1
Toluene	ND		1.0	ug/L			04/26/24 23:12	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/26/24 23:12	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/26/24 23:12	1
Trichloroethene	ND		1.0	ug/L			04/26/24 23:12	1
Trichlorofluoromethane (Freon 11)	ND	*	1.0	ug/L			04/26/24 23:12	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/26/24 23:12	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/26/24 23:12	1
Vinyl chloride	ND		1.0	ug/L			04/26/24 23:12	1
m,p-Xylene	ND		1.0	ug/L			04/26/24 23:12	1
o-Xylene	ND		1.0	ug/L			04/26/24 23:12	1
Tetrahydrofuran	ND		2.0	ug/L			04/26/24 23:12	1
Ethyl ether	ND		1.0	ug/L			04/26/24 23:12	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/26/24 23:12	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/26/24 23:12	1
di-Isopropyl ether	ND		1.0	ug/L			04/26/24 23:12	1
tert-Butanol	ND		10	ug/L			04/26/24 23:12	1
1,4-Dioxane	ND		50	ug/L			04/26/24 23:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/26/24 23:12	1
Ethanol	ND		200	ug/L			04/26/24 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		04/26/24 23:12	1
Toluene-d8 (Surr)	100		70 - 130		04/26/24 23:12	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		04/26/24 23:12	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-5

Date Collected: 04/15/24 09:30

Matrix: Water

Date Received: 04/19/24 17:05

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		70 - 130		04/26/24 23:12	1

Client Sample ID: 4R Day 60b, 0.5x

Lab Sample ID: 620-18156-6

Date Collected: 04/15/24 08:54

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Acetone	ND		51	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Acrylonitrile	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Benzene	280	E	5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Bromobenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Bromochloromethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Bromodichloromethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Bromoform	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Bromomethane	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
2-Butanone (MEK)	ND	*-	10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
n-Butylbenzene	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
sec-Butylbenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
tert-Butylbenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Carbon disulfide	120		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Carbon tetrachloride	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Chlorobenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Chloroethane	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Chloroform	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Chloromethane	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
2-Chlorotoluene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
4-Chlorotoluene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Dibromochloromethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,2-Dibromoethane (EDB)	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Dibromomethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,1-Dichloroethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,2-Dichloroethane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,1-Dichloroethene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,2-Dichloropropane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,3-Dichloropropane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
2,2-Dichloropropane	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
1,1-Dichloropropene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1
Ethylbenzene	ND		5.1	ug/Kg	☆	04/22/24 11:16	04/22/24 16:52	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 0.5x

Lab Sample ID: 620-18156-6

Date Collected: 04/15/24 08:54

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 78.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND	*_ *1	10	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
2-Hexanone (MBK)	ND	*_	10	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Isopropylbenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
4-Isopropyltoluene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Methyl tert-butyl ether	5.7		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Methylene Chloride	ND		10	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Naphthalene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
N-Propylbenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Styrene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Tetrachloroethene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Toluene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,2,3-Trichlorobenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,3,5-Trichlorobenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Trichloroethene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Trichlorofluoromethane (Freon 11)	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Vinyl chloride	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
m,p-Xylene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
o-Xylene	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Tetrahydrofuran	ND		10	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Ethyl ether	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Tert-amyl methyl ether	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Ethyl tert-butyl ether	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
di-Isopropyl ether	ND		5.1	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
tert-Butanol	ND		100	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
1,4-Dioxane	ND		100	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
trans-1,4-Dichloro-2-butene	ND		26	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1
Ethanol	ND		1000	ug/Kg	✧	04/22/24 11:16	04/22/24 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/22/24 11:16	04/22/24 16:52	1
Toluene-d8 (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 16:52	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 16:52	1
Dibromofluoromethane (Surr)	109		70 - 130	04/22/24 11:16	04/22/24 16:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		48	ug/Kg	✧	04/28/24 12:36	04/28/24 16:44	1
Acetone	ND		480	ug/Kg	✧	04/28/24 12:36	04/28/24 16:44	1
Acrylonitrile	ND		48	ug/Kg	✧	04/28/24 12:36	04/28/24 16:44	1
Benzene	670		48	ug/Kg	✧	04/28/24 12:36	04/28/24 16:44	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 0.5x

Lab Sample ID: 620-18156-6

Date Collected: 04/15/24 08:54

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 78.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Bromochloromethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Bromodichloromethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Bromoform	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Bromomethane	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
2-Butanone (MEK)	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
n-Butylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
sec-Butylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
tert-Butylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Carbon disulfide	270		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Carbon tetrachloride	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Chlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Chloroethane	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Chloroform	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Chloromethane	ND	*+	97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
2-Chlorotoluene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
4-Chlorotoluene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2-Dibromo-3-Chloropropane	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Dibromochloromethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2-Dibromoethane (EDB)	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Dibromomethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2-Dichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,3-Dichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,4-Dichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Dichlorodifluoromethane (Freon 12)	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1-Dichloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2-Dichloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1-Dichloroethene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
cis-1,2-Dichloroethene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
trans-1,2-Dichloroethene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2-Dichloropropane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,3-Dichloropropane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
2,2-Dichloropropane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1-Dichloropropene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
cis-1,3-Dichloropropene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
trans-1,3-Dichloropropene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Ethylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Hexachlorobutadiene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
2-Hexanone (MBK)	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Isopropylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
4-Isopropyltoluene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Methyl tert-butyl ether	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Methylene Chloride	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Naphthalene	61		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
N-Propylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Styrene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1,1,2-Tetrachloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1,2,2-Tetrachloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 0.5x

Lab Sample ID: 620-18156-6

Date Collected: 04/15/24 08:54

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 78.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Toluene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2,3-Trichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2,4-Trichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,3,5-Trichlorobenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1,1-Trichloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,1,2-Trichloroethane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Trichloroethene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Trichlorofluoromethane (Freon 11)	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2,3-Trichloropropane	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,2,4-Trimethylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,3,5-Trimethylbenzene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Vinyl chloride	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
m,p-Xylene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
o-Xylene	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Tetrahydrofuran	ND		97	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Ethyl ether	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Tert-amyl methyl ether	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Ethyl tert-butyl ether	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
di-Isopropyl ether	ND		48	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
tert-Butanol	ND		970	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
1,4-Dioxane	ND		970	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
trans-1,4-Dichloro-2-butene	ND		240	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1
Ethanol	ND		9700	ug/Kg	☆	04/28/24 12:36	04/28/24 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/28/24 12:36	04/28/24 16:44	1
Toluene-d8 (Surr)	98		70 - 130	04/28/24 12:36	04/28/24 16:44	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 130	04/28/24 12:36	04/28/24 16:44	1
Dibromofluoromethane (Surr)	89		70 - 130	04/28/24 12:36	04/28/24 16:44	1

Client Sample ID: 4R Day 60b, 1x

Lab Sample ID: 620-18156-7

Date Collected: 04/15/24 09:04

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Acetone	ND		40	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Acrylonitrile	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Benzene	87		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Bromobenzene	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Bromochloromethane	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Bromodichloromethane	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Bromoform	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
Bromomethane	ND		8.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
2-Butanone (MEK)	ND	*	8.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
n-Butylbenzene	ND		8.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1
sec-Butylbenzene	ND		4.0	ug/Kg	☆	04/22/24 11:16	04/22/24 17:17	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 1x

Lab Sample ID: 620-18156-7

Date Collected: 04/15/24 09:04

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 83.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Carbon disulfide	72		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Carbon tetrachloride	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Chlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Chloroethane	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Chloroform	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Chloromethane	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
2-Chlorotoluene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
4-Chlorotoluene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2-Dibromo-3-Chloropropane	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Dibromochloromethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2-Dibromoethane (EDB)	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Dibromomethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,3-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,4-Dichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Dichlorodifluoromethane (Freon 12)	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1-Dichloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2-Dichloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1-Dichloroethene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2-Dichloropropane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,3-Dichloropropane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
2,2-Dichloropropane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1-Dichloropropene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Ethylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Hexachlorobutadiene	ND	*- *1	8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
2-Hexanone (MBK)	ND	*-	8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Isopropylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
4-Isopropyltoluene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Methyl tert-butyl ether	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Methylene Chloride	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Naphthalene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
N-Propylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Styrene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Tetrachloroethene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Toluene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,3,5-Trichlorobenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1,1-Trichloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,1,2-Trichloroethane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Trichloroethene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 1x

Date Collected: 04/15/24 09:04

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-7

Matrix: Solid

Percent Solids: 83.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2,3-Trichloropropane	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Vinyl chloride	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
m,p-Xylene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
o-Xylene	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Tetrahydrofuran	ND		8.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Ethyl ether	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Tert-amyl methyl ether	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Ethyl tert-butyl ether	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
di-Isopropyl ether	ND		4.0	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
tert-Butanol	ND		80	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
1,4-Dioxane	ND		80	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
trans-1,4-Dichloro-2-butene	ND		20	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1
Ethanol	ND		800	ug/Kg	✱	04/22/24 11:16	04/22/24 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/22/24 11:16	04/22/24 17:17	1
Toluene-d8 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 17:17	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130	04/22/24 11:16	04/22/24 17:17	1
Dibromofluoromethane (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 17:17	1

Client Sample ID: 4R Day 60b, 2x

Date Collected: 04/15/24 09:14

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-8

Matrix: Solid

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Acetone	56		56	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Acrylonitrile	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Benzene	57		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Bromobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Bromochloromethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Bromodichloromethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Bromoform	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Bromomethane	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
2-Butanone (MEK)	ND	*-	11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
n-Butylbenzene	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
sec-Butylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
tert-Butylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Carbon disulfide	52		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Carbon tetrachloride	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Chlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Chloroethane	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Chloroform	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Chloromethane	33		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
2-Chlorotoluene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 2x

Lab Sample ID: 620-18156-8

Date Collected: 04/15/24 09:14

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2-Dibromo-3-Chloropropane	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Dibromochloromethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2-Dibromoethane (EDB)	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Dibromomethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2-Dichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,3-Dichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,4-Dichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Dichlorodifluoromethane (Freon 12)	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1-Dichloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2-Dichloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1-Dichloroethene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
cis-1,2-Dichloroethene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
trans-1,2-Dichloroethene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2-Dichloropropane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,3-Dichloropropane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
2,2-Dichloropropane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1-Dichloropropene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
cis-1,3-Dichloropropene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
trans-1,3-Dichloropropene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Ethylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Hexachlorobutadiene	ND	*- *1	11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
2-Hexanone (MBK)	ND	*-	11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Isopropylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
4-Isopropyltoluene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Methyl tert-butyl ether	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Methylene Chloride	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Naphthalene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
N-Propylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Styrene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1,1,2-Tetrachloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1,1,2,2-Tetrachloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Tetrachloroethene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Toluene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2,3-Trichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2,4-Trichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,3,5-Trichlorobenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1,1-Trichloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,1,2-Trichloroethane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Trichloroethene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Trichlorofluoromethane (Freon 11)	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2,3-Trichloropropane	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,2,4-Trimethylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,3,5-Trimethylbenzene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Vinyl chloride	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
m,p-Xylene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
o-Xylene	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Tetrahydrofuran	ND		11	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 2x

Lab Sample ID: 620-18156-8

Date Collected: 04/15/24 09:14

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Tert-amyl methyl ether	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Ethyl tert-butyl ether	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
di-Isopropyl ether	ND		5.6	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
tert-Butanol	ND		110	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
1,4-Dioxane	ND		110	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
trans-1,4-Dichloro-2-butene	ND		28	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Ethanol	ND		1100	ug/Kg	✱	04/22/24 11:16	04/22/24 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/22/24 11:16	04/22/24 17:42	1
Toluene-d8 (Surr)	107		70 - 130			04/22/24 11:16	04/22/24 17:42	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130			04/22/24 11:16	04/22/24 17:42	1
Dibromofluoromethane (Surr)	108		70 - 130			04/22/24 11:16	04/22/24 17:42	1

Client Sample ID: 4R Day 60b, 3x

Lab Sample ID: 620-18156-9

Date Collected: 04/15/24 09:24

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Acetone	66		36	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Acrylonitrile	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Benzene	33		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Bromobenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Bromochloromethane	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Bromodichloromethane	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Bromoform	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Bromomethane	ND		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
2-Butanone (MEK)	10 *-		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
n-Butylbenzene	ND		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
sec-Butylbenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
tert-Butylbenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Carbon disulfide	16		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Carbon tetrachloride	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Chlorobenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Chloroethane	ND		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Chloroform	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Chloromethane	67		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
2-Chlorotoluene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
4-Chlorotoluene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Dibromochloromethane	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
1,2-Dibromoethane (EDB)	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
Dibromomethane	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
1,2-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
1,3-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1
1,4-Dichlorobenzene	ND		3.6	ug/Kg	✱	04/22/24 11:16	04/22/24 18:07	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 3x

Lab Sample ID: 620-18156-9

Date Collected: 04/15/24 09:24

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1-Dichloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2-Dichloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1-Dichloroethene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2-Dichloropropane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,3-Dichloropropane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
2,2-Dichloropropane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1-Dichloropropene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Ethylbenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Hexachlorobutadiene	ND	*- *1	7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
2-Hexanone (MBK)	ND	*-	7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Isopropylbenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
4-Isopropyltoluene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Methyl tert-butyl ether	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Methylene Chloride	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Naphthalene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
N-Propylbenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Styrene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Tetrachloroethene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Toluene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,3,5-Trichlorobenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1,1-Trichloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,1,2-Trichloroethane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Trichloroethene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2,3-Trichloropropane	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Vinyl chloride	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
m,p-Xylene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
o-Xylene	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Tetrahydrofuran	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Ethyl ether	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Tert-amyl methyl ether	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Ethyl tert-butyl ether	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
di-Isopropyl ether	ND		3.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
tert-Butanol	ND		73	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
1,4-Dioxane	ND		73	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1
Ethanol	ND		730	ug/Kg	☆	04/22/24 11:16	04/22/24 18:07	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 3x

Date Collected: 04/15/24 09:24

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-9

Matrix: Solid

Percent Solids: 80.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 18:07	1
Toluene-d8 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 18:07	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130	04/22/24 11:16	04/22/24 18:07	1
Dibromofluoromethane (Surr)	109		70 - 130	04/22/24 11:16	04/22/24 18:07	1

Client Sample ID: 4R Day 60b, ctrl

Date Collected: 04/15/24 09:34

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-10

Matrix: Solid

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Acetone	ND		43	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Acrylonitrile	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Benzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Bromobenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Bromochloromethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Bromodichloromethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Bromoform	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Bromomethane	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
2-Butanone (MEK)	ND	*	8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
n-Butylbenzene	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
sec-Butylbenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
tert-Butylbenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Carbon disulfide	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Carbon tetrachloride	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Chlorobenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Chloroethane	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Chloroform	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Chloromethane	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
2-Chlorotoluene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
4-Chlorotoluene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,2-Dibromo-3-Chloropropane	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Dibromochloromethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,2-Dibromoethane (EDB)	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Dibromomethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,2-Dichlorobenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,3-Dichlorobenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,4-Dichlorobenzene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
Dichlorodifluoromethane (Freon 12)	ND		8.6	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,1-Dichloroethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,2-Dichloroethane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,1-Dichloroethene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,2-Dichloropropane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,3-Dichloropropane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
2,2-Dichloropropane	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
1,1-Dichloropropene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	☼	04/22/24 11:16	04/22/24 18:32	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, ctrl

Lab Sample ID: 620-18156-10

Date Collected: 04/15/24 09:34

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 83.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Ethylbenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Hexachlorobutadiene	ND	*- *1	8.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
2-Hexanone (MBK)	ND	*-	8.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Isopropylbenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
4-Isopropyltoluene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Methyl tert-butyl ether	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		8.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Methylene Chloride	ND		8.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Naphthalene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
N-Propylbenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Styrene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Tetrachloroethene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Toluene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,3,5-Trichlorobenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,1,1-Trichloroethane	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,1,2-Trichloroethane	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Trichloroethene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Trichlorofluoromethane (Freon 11)	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,2,3-Trichloropropane	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Vinyl chloride	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
m,p-Xylene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
o-Xylene	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Tetrahydrofuran	ND		8.6	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Ethyl ether	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Tert-amyl methyl ether	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Ethyl tert-butyl ether	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
di-Isopropyl ether	ND		4.3	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
tert-Butanol	ND		86	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
1,4-Dioxane	ND		86	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
trans-1,4-Dichloro-2-butene	ND		22	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1
Ethanol	ND		860	ug/Kg	☆	04/22/24 11:16	04/22/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/22/24 11:16	04/22/24 18:32	1
Toluene-d8 (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 18:32	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 18:32	1
Dibromofluoromethane (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 18:32	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-11

Date Collected: 04/15/24 08:52

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Acetone	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Acrylonitrile	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Benzene	220	E	4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Bromobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Bromochloromethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Bromodichloromethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Bromoform	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Bromomethane	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
2-Butanone (MEK)	ND	*	9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
n-Butylbenzene	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
sec-Butylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
tert-Butylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Carbon disulfide	100		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Carbon tetrachloride	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Chlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Chloroethane	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Chloroform	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Chloromethane	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
2-Chlorotoluene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
4-Chlorotoluene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2-Dibromo-3-Chloropropane	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Dibromochloromethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2-Dibromoethane (EDB)	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Dibromomethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2-Dichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,3-Dichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,4-Dichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Dichlorodifluoromethane (Freon 12)	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1-Dichloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2-Dichloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1-Dichloroethene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
cis-1,2-Dichloroethene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
trans-1,2-Dichloroethene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2-Dichloropropane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,3-Dichloropropane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
2,2-Dichloropropane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1-Dichloropropene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
cis-1,3-Dichloropropene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
trans-1,3-Dichloropropene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Ethylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Hexachlorobutadiene	ND	*- *1	9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
2-Hexanone (MBK)	ND	*-	9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Isopropylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
4-Isopropyltoluene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Methyl tert-butyl ether	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Methylene Chloride	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Naphthalene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-11

Date Collected: 04/15/24 08:52

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Styrene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1,1,2-Tetrachloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1,2,2-Tetrachloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Tetrachloroethene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Toluene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2,3-Trichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2,4-Trichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,3,5-Trichlorobenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1,1-Trichloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,1,2-Trichloroethane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Trichloroethene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Trichlorofluoromethane (Freon 11)	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2,3-Trichloropropane	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,2,4-Trimethylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,3,5-Trimethylbenzene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Vinyl chloride	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
m,p-Xylene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
o-Xylene	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Tetrahydrofuran	ND		9.4	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Ethyl ether	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Tert-amyl methyl ether	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Ethyl tert-butyl ether	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
di-Isopropyl ether	ND		4.7	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
tert-Butanol	ND		94	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
1,4-Dioxane	ND		94	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
trans-1,4-Dichloro-2-butene	ND		23	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1
Ethanol	ND		940	ug/Kg	☆	04/22/24 11:16	04/22/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/22/24 11:16	04/22/24 18:57	1
Toluene-d8 (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 18:57	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 18:57	1
Dibromofluoromethane (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 18:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Acetone	ND		430	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Acrylonitrile	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Benzene	1600		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Bromobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Bromochloromethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Bromodichloromethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Bromoform	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Bromomethane	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
2-Butanone (MEK)	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
n-Butylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
sec-Butylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Lab Sample ID: 620-18156-11

Date Collected: 04/15/24 08:52

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Carbon disulfide	1200		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Carbon tetrachloride	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Chlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Chloroethane	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Chloroform	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Chloromethane	ND	+	85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
2-Chlorotoluene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
4-Chlorotoluene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2-Dibromo-3-Chloropropane	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Dibromochloromethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2-Dibromoethane (EDB)	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Dibromomethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2-Dichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,3-Dichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,4-Dichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Dichlorodifluoromethane (Freon 12)	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1-Dichloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2-Dichloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1-Dichloroethene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
cis-1,2-Dichloroethene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
trans-1,2-Dichloroethene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2-Dichloropropane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,3-Dichloropropane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
2,2-Dichloropropane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1-Dichloropropene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
cis-1,3-Dichloropropene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
trans-1,3-Dichloropropene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Ethylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Hexachlorobutadiene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
2-Hexanone (MBK)	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Isopropylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
4-Isopropyltoluene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Methyl tert-butyl ether	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Methylene Chloride	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Naphthalene	44		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
N-Propylbenzene	44		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Styrene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1,1,2-Tetrachloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1,2,2-Tetrachloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Tetrachloroethene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Toluene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2,3-Trichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2,4-Trichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,3,5-Trichlorobenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1,1-Trichloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,1,2-Trichloroethane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Trichloroethene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Date Collected: 04/15/24 08:52

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-11

Matrix: Solid

Percent Solids: 80.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - ME (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane (Freon 11)	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2,3-Trichloropropane	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,2,4-Trimethylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,3,5-Trimethylbenzene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Vinyl chloride	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
m,p-Xylene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
o-Xylene	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Tetrahydrofuran	ND		85	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Ethyl ether	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Tert-amyl methyl ether	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Ethyl tert-butyl ether	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
di-Isopropyl ether	ND		43	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
tert-Butanol	ND		850	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
1,4-Dioxane	ND		850	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
trans-1,4-Dichloro-2-butene	ND		210	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Ethanol	ND		8500	ug/Kg	☆	04/28/24 12:36	04/28/24 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			04/28/24 12:36	04/28/24 17:10	1
Toluene-d8 (Surr)	99		70 - 130			04/28/24 12:36	04/28/24 17:10	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130			04/28/24 12:36	04/28/24 17:10	1
Dibromofluoromethane (Surr)	90		70 - 130			04/28/24 12:36	04/28/24 17:10	1

Client Sample ID: 4R Day 60, 1x

Date Collected: 04/15/24 09:02

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-12

Matrix: Solid

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Acetone	ND		34	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Acrylonitrile	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Benzene	110		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Bromobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Bromochloromethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Bromodichloromethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Bromoform	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Bromomethane	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
2-Butanone (MEK)	ND	*-	6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
n-Butylbenzene	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
sec-Butylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
tert-Butylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Carbon disulfide	97		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Carbon tetrachloride	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Chlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Chloroethane	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Chloroform	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Chloromethane	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
2-Chlorotoluene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 1x

Lab Sample ID: 620-18156-12

Date Collected: 04/15/24 09:02

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 83.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2-Dibromo-3-Chloropropane	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Dibromochloromethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2-Dibromoethane (EDB)	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Dibromomethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2-Dichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,3-Dichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,4-Dichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Dichlorodifluoromethane (Freon 12)	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1-Dichloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2-Dichloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1-Dichloroethene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2-Dichloropropane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,3-Dichloropropane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
2,2-Dichloropropane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1-Dichloropropene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Ethylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Hexachlorobutadiene	ND	*- *1	6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
2-Hexanone (MBK)	ND	*-	6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Isopropylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
4-Isopropyltoluene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Methyl tert-butyl ether	5.7		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Methylene Chloride	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Naphthalene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
N-Propylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Styrene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Tetrachloroethene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Toluene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,3,5-Trichlorobenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1,1-Trichloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,1,2-Trichloroethane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Trichloroethene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Trichlorofluoromethane (Freon 11)	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2,3-Trichloropropane	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Vinyl chloride	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
m,p-Xylene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
o-Xylene	ND		3.4	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1
Tetrahydrofuran	ND		6.8	ug/Kg	☆	04/22/24 11:16	04/22/24 19:22	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 1x

Date Collected: 04/15/24 09:02

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-12

Matrix: Solid

Percent Solids: 83.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		3.4	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
Tert-amyl methyl ether	ND		3.4	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
Ethyl tert-butyl ether	ND		3.4	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
di-Isopropyl ether	ND		3.4	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
tert-Butanol	ND		68	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
1,4-Dioxane	ND		68	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
trans-1,4-Dichloro-2-butene	ND		17	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
Ethanol	ND		680	ug/Kg	✱	04/22/24 11:16	04/22/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/22/24 11:16	04/22/24 19:22	1
Toluene-d8 (Surr)	108		70 - 130			04/22/24 11:16	04/22/24 19:22	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130			04/22/24 11:16	04/22/24 19:22	1
Dibromofluoromethane (Surr)	110		70 - 130			04/22/24 11:16	04/22/24 19:22	1

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:12

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-13

Matrix: Solid

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Acetone	49		45	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Acrylonitrile	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Benzene	65		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Bromobenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Bromochloromethane	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Bromodichloromethane	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Bromoform	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Bromomethane	ND		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
2-Butanone (MEK)	ND	*-	9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
n-Butylbenzene	ND		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
sec-Butylbenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
tert-Butylbenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Carbon disulfide	52		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Carbon tetrachloride	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Chlorobenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Chloroethane	ND		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Chloroform	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Chloromethane	33		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
2-Chlorotoluene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
4-Chlorotoluene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
1,2-Dibromo-3-Chloropropane	ND		9.1	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Dibromochloromethane	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
1,2-Dibromoethane (EDB)	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
Dibromomethane	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
1,2-Dichlorobenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
1,3-Dichlorobenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1
1,4-Dichlorobenzene	ND		4.5	ug/Kg	✱	04/22/24 11:16	04/22/24 19:47	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-13

Date Collected: 04/15/24 09:12

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 81.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane (Freon 12)	ND		9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1-Dichloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2-Dichloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1-Dichloroethene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
cis-1,2-Dichloroethene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
trans-1,2-Dichloroethene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2-Dichloropropane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,3-Dichloropropane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
2,2-Dichloropropane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1-Dichloropropene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
cis-1,3-Dichloropropene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
trans-1,3-Dichloropropene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Ethylbenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Hexachlorobutadiene	ND	*- *1	9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
2-Hexanone (MBK)	ND	*-	9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Isopropylbenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
4-Isopropyltoluene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Methyl tert-butyl ether	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Methylene Chloride	ND		9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Naphthalene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
N-Propylbenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Styrene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1,1,2-Tetrachloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1,2,2-Tetrachloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Tetrachloroethene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Toluene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2,3-Trichlorobenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2,4-Trichlorobenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,3,5-Trichlorobenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1,1-Trichloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,1,2-Trichloroethane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Trichloroethene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Trichlorofluoromethane (Freon 11)	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2,3-Trichloropropane	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,2,4-Trimethylbenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,3,5-Trimethylbenzene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Vinyl chloride	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
m,p-Xylene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
o-Xylene	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Tetrahydrofuran	ND		9.1	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Ethyl ether	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Tert-amyl methyl ether	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Ethyl tert-butyl ether	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
di-Isopropyl ether	ND		4.5	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
tert-Butanol	ND		91	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
1,4-Dioxane	ND		91	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
trans-1,4-Dichloro-2-butene	ND		23	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1
Ethanol	ND		910	ug/Kg	☆	04/22/24 11:16	04/22/24 19:47	1

Eurofins Rhode Island

Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:12

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-13

Matrix: Solid

Percent Solids: 81.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/22/24 11:16	04/22/24 19:47	1
Toluene-d8 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 19:47	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 19:47	1
Dibromofluoromethane (Surr)	109		70 - 130	04/22/24 11:16	04/22/24 19:47	1

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:22

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-14

Matrix: Solid

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Acetone	63		32	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Acrylonitrile	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Benzene	30		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Bromobenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Bromochloromethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Bromodichloromethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Bromoform	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Bromomethane	ND		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
2-Butanone (MEK)	10 *-		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
n-Butylbenzene	ND		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
sec-Butylbenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
tert-Butylbenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Carbon disulfide	15		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Carbon tetrachloride	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Chlorobenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Chloroethane	ND		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Chloroform	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Chloromethane	63		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
2-Chlorotoluene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
4-Chlorotoluene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,2-Dibromo-3-Chloropropane	ND		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Dibromochloromethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,2-Dibromoethane (EDB)	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Dibromomethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,2-Dichlorobenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,3-Dichlorobenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,4-Dichlorobenzene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
Dichlorodifluoromethane (Freon 12)	ND		6.3	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,1-Dichloroethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,2-Dichloroethane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,1-Dichloroethene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
cis-1,2-Dichloroethene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
trans-1,2-Dichloroethene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,2-Dichloropropane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,3-Dichloropropane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
2,2-Dichloropropane	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
1,1-Dichloropropene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1
cis-1,3-Dichloropropene	ND		3.2	ug/Kg	☼	04/22/24 11:16	04/22/24 20:12	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 2x

Lab Sample ID: 620-18156-14

Date Collected: 04/15/24 09:22

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 82.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Ethylbenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Hexachlorobutadiene	ND	*- *1	6.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
2-Hexanone (MBK)	ND	*-	6.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Isopropylbenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
4-Isopropyltoluene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Methyl tert-butyl ether	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
4-Methyl-2-pentanone (MIBK)	ND		6.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Methylene Chloride	ND		6.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Naphthalene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
N-Propylbenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Styrene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,1,1,2-Tetrachloroethane	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,1,2,2-Tetrachloroethane	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Tetrachloroethene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Toluene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,2,3-Trichlorobenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,2,4-Trichlorobenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,3,5-Trichlorobenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,1,1-Trichloroethane	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,1,2-Trichloroethane	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Trichloroethene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Trichlorofluoromethane (Freon 11)	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,2,3-Trichloropropane	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,2,4-Trimethylbenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,3,5-Trimethylbenzene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Vinyl chloride	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
m,p-Xylene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
o-Xylene	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Tetrahydrofuran	ND		6.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Ethyl ether	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Tert-amyl methyl ether	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Ethyl tert-butyl ether	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
di-Isopropyl ether	ND		3.2	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
tert-Butanol	ND		63	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
1,4-Dioxane	ND		63	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
trans-1,4-Dichloro-2-butene	ND		16	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1
Ethanol	ND		630	ug/Kg	☆	04/22/24 11:16	04/22/24 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/22/24 11:16	04/22/24 20:12	1
Toluene-d8 (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 20:12	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	04/22/24 11:16	04/22/24 20:12	1
Dibromofluoromethane (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 20:12	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-15

Date Collected: 04/15/24 09:32

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Acetone	ND		37	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Acrylonitrile	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Benzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Bromobenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Bromochloromethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Bromodichloromethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Bromoform	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Bromomethane	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
2-Butanone (MEK)	ND	*	7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
n-Butylbenzene	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
sec-Butylbenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
tert-Butylbenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Carbon disulfide	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Carbon tetrachloride	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Chlorobenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Chloroethane	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Chloroform	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Chloromethane	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
2-Chlorotoluene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
4-Chlorotoluene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,2-Dibromo-3-Chloropropane	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Dibromochloromethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,2-Dibromoethane (EDB)	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Dibromomethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,2-Dichlorobenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,3-Dichlorobenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,4-Dichlorobenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Dichlorodifluoromethane (Freon 12)	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,1-Dichloroethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,2-Dichloroethane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,1-Dichloroethene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,2-Dichloropropane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,3-Dichloropropane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
2,2-Dichloropropane	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
1,1-Dichloropropene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Ethylbenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Hexachlorobutadiene	ND	*- *1	7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
2-Hexanone (MBK)	ND	*-	7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Isopropylbenzene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
4-Isopropyltoluene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Methyl tert-butyl ether	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Methylene Chloride	ND		7.3	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1
Naphthalene	ND		3.7	ug/Kg	☆	04/22/24 11:16	04/22/24 20:37	1

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Client Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, ctrl

Lab Sample ID: 620-18156-15

Date Collected: 04/15/24 09:32

Matrix: Solid

Date Received: 04/19/24 17:05

Percent Solids: 82.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Styrene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Tetrachloroethene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Toluene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,3,5-Trichlorobenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,1,1-Trichloroethane	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,1,2-Trichloroethane	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Trichloroethene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Trichlorofluoromethane (Freon 11)	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,2,3-Trichloropropane	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Vinyl chloride	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
m,p-Xylene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
o-Xylene	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Tetrahydrofuran	ND		7.3	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Ethyl ether	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Tert-amyl methyl ether	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Ethyl tert-butyl ether	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
di-Isopropyl ether	ND		3.7	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
tert-Butanol	ND		73	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
1,4-Dioxane	ND		73	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
trans-1,4-Dichloro-2-butene	ND		18	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1
Ethanol	ND		730	ug/Kg	✱	04/22/24 11:16	04/22/24 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/22/24 11:16	04/22/24 20:37	1
Toluene-d8 (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 20:37	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	04/22/24 11:16	04/22/24 20:37	1
Dibromofluoromethane (Surr)	107		70 - 130	04/22/24 11:16	04/22/24 20:37	1

Surrogate Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Matrix: Solid

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)
620-18156-6	4R Day 60b, 0.5x	103	108	107	109
620-18156-6 - ME	4R Day 60b, 0.5x	91	98	82	89
620-18156-7	4R Day 60b, 1x	105	107	109	107
620-18156-8	4R Day 60b, 2x	104	107	112	108
620-18156-9	4R Day 60b, 3x	106	107	112	109
620-18156-10	4R Day 60b, ctrl	101	106	107	106
620-18156-11	4R Day 60, 0.5x	105	108	106	108
620-18156-11 - ME	4R Day 60, 0.5x	91	99	83	90
620-18156-12	4R Day 60, 1x	104	108	109	110
620-18156-13	4R Day 60, 2x	105	107	108	109
620-18156-14	4R Day 60, 2x	105	107	111	108
620-18156-15	4R Day 60, ctrl	102	106	108	107
LCS 620-33991/1-A	Lab Control Sample	104	107	104	106
LCS 620-34205/1-A	Lab Control Sample	95	101	87	95
LCSD 620-33991/2-A	Lab Control Sample Dup	103	104	102	105
LCSD 620-34205/2-A	Lab Control Sample Dup	95	101	88	95
MB 620-33991/3-A	Method Blank	99	104	109	106
MB 620-34205/3-A	Method Blank	92	100	87	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

DBFM = Dibromofluoromethane (Surr)

Method: 8260C - 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)
620-18156-1	4R Day 60, 0.5x	91	98	89	92
620-18156-2	4R Day 60, 1x	92	99	92	95
620-18156-3	4R Day 60, 2x	93	99	88	94
620-18156-4	4R Day 60, 3x	93	100	89	94
620-18156-5	4R Day 60, ctrl	92	100	88	93
LCS 620-34164/4	Lab Control Sample	94	100	87	94
LCSD 620-34164/5	Lab Control Sample Dup	94	100	86	94
MB 620-34164/7	Method Blank	92	98	85	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

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

DBFM = Dibromofluoromethane (Surr)

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: MB 620-33991/3-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33991

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Acetone	ND		50	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Acrylonitrile	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Benzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Bromobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Bromochloromethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Bromodichloromethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Bromoform	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Bromomethane	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
2-Butanone (MEK)	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
n-Butylbenzene	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
sec-Butylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
tert-Butylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Carbon disulfide	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Carbon tetrachloride	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Chlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Chloroethane	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Chloroform	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Chloromethane	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
2-Chlorotoluene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
4-Chlorotoluene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Dibromochloromethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2-Dibromoethane (EDB)	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Dibromomethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Dichlorodifluoromethane (Freon 12)	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1-Dichloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2-Dichloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1-Dichloroethene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2-Dichloropropane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,3-Dichloropropane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
2,2-Dichloropropane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1-Dichloropropene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Ethylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Hexachlorobutadiene	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
2-Hexanone (MBK)	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Isopropylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
4-Isopropyltoluene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Methyl tert-butyl ether	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Methylene Chloride	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: MB 620-33991/3-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33991

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
N-Propylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Styrene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Tetrachloroethene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Toluene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,3,5-Trichlorobenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Trichloroethene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Trichlorofluoromethane (Freon 11)	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Vinyl chloride	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
m,p-Xylene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
o-Xylene	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Tetrahydrofuran	ND		10	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Ethyl ether	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Tert-amyl methyl ether	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Ethyl tert-butyl ether	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
di-Isopropyl ether	ND		5.0	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
tert-Butanol	ND		100	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
1,4-Dioxane	ND		100	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
trans-1,4-Dichloro-2-butene	ND		25	ug/Kg		04/22/24 11:16	04/22/24 15:30	1
Ethanol	ND		1000	ug/Kg		04/22/24 11:16	04/22/24 15:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/22/24 11:16	04/22/24 15:30	1
Toluene-d8 (Surr)	104		70 - 130	04/22/24 11:16	04/22/24 15:30	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130	04/22/24 11:16	04/22/24 15:30	1
Dibromofluoromethane (Surr)	106		70 - 130	04/22/24 11:16	04/22/24 15:30	1

Lab Sample ID: LCS 620-33991/1-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	22.4		ug/Kg		112	70 - 130
Acetone	20.0	17.3	J	ug/Kg		87	70 - 130
Acrylonitrile	20.0	21.7		ug/Kg		109	70 - 130
Benzene	20.0	23.5		ug/Kg		118	70 - 130
Bromobenzene	20.0	19.8		ug/Kg		99	70 - 130
Bromochloromethane	20.0	23.2		ug/Kg		116	70 - 130
Bromodichloromethane	20.0	24.4		ug/Kg		122	70 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-33991/1-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	20.1		ug/Kg		101	70 - 130
Bromomethane	20.0	21.3		ug/Kg		106	70 - 130
2-Butanone (MEK)	20.0	14.8		ug/Kg		74	70 - 130
n-Butylbenzene	20.0	19.8		ug/Kg		99	70 - 130
sec-Butylbenzene	20.0	20.9		ug/Kg		104	70 - 130
tert-Butylbenzene	20.0	21.7		ug/Kg		109	70 - 130
Carbon disulfide	20.0	23.1		ug/Kg		115	70 - 130
Carbon tetrachloride	20.0	23.2		ug/Kg		116	70 - 130
Chlorobenzene	20.0	21.2		ug/Kg		106	70 - 130
Chloroethane	20.0	21.9		ug/Kg		109	70 - 130
Chloroform	20.0	23.6		ug/Kg		118	70 - 130
Chloromethane	20.0	21.7		ug/Kg		108	70 - 130
2-Chlorotoluene	20.0	20.8		ug/Kg		104	70 - 130
4-Chlorotoluene	20.0	20.8		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/Kg		91	70 - 130
Dibromochloromethane	20.0	23.4		ug/Kg		117	70 - 130
1,2-Dibromoethane (EDB)	20.0	22.8		ug/Kg		114	70 - 130
Dibromomethane	20.0	23.3		ug/Kg		116	70 - 130
1,2-Dichlorobenzene	20.0	18.8		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	20.0	20.9		ug/Kg		104	70 - 130
1,4-Dichlorobenzene	20.0	19.9		ug/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	18.7		ug/Kg		93	70 - 130
1,1-Dichloroethane	20.0	25.1		ug/Kg		126	70 - 130
1,2-Dichloroethane	20.0	23.8		ug/Kg		119	70 - 130
1,1-Dichloroethene	20.0	24.4		ug/Kg		122	70 - 130
cis-1,2-Dichloroethene	20.0	23.2		ug/Kg		116	70 - 130
trans-1,2-Dichloroethene	20.0	24.1		ug/Kg		120	70 - 130
1,2-Dichloropropane	20.0	23.4		ug/Kg		117	70 - 130
1,3-Dichloropropane	20.0	22.7		ug/Kg		114	70 - 130
2,2-Dichloropropane	20.0	23.9		ug/Kg		119	70 - 130
1,1-Dichloropropene	20.0	21.7		ug/Kg		108	70 - 130
cis-1,3-Dichloropropene	20.0	20.9		ug/Kg		105	70 - 130
trans-1,3-Dichloropropene	20.0	23.9		ug/Kg		119	70 - 130
Ethylbenzene	20.0	20.8		ug/Kg		104	70 - 130
Hexachlorobutadiene	20.0	18.3		ug/Kg		91	70 - 130
2-Hexanone (MBK)	20.0	13.8	*-	ug/Kg		69	70 - 130
Isopropylbenzene	20.0	18.9		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	18.4		ug/Kg		92	70 - 130
Methyl tert-butyl ether	20.0	22.2		ug/Kg		111	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/Kg		93	70 - 130
Methylene Chloride	20.0	24.4		ug/Kg		122	70 - 130
Naphthalene	20.0	18.4		ug/Kg		92	70 - 130
N-Propylbenzene	20.0	21.2		ug/Kg		106	70 - 130
Styrene	20.0	19.2		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.1		ug/Kg		105	70 - 130
Tetrachloroethene	20.0	22.3		ug/Kg		112	70 - 130
Toluene	20.0	23.4		ug/Kg		117	70 - 130

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-33991/1-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	20.0	19.5		ug/Kg		98	70 - 130
1,2,4-Trichlorobenzene	20.0	20.2		ug/Kg		101	70 - 130
1,3,5-Trichlorobenzene	20.0	18.7		ug/Kg		94	70 - 130
1,1,1-Trichloroethane	20.0	24.6		ug/Kg		123	70 - 130
1,1,2-Trichloroethane	20.0	24.7		ug/Kg		124	70 - 130
Trichloroethene	20.0	22.4		ug/Kg		112	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	24.3		ug/Kg		121	70 - 130
1,2,3-Trichloropropane	20.0	21.4		ug/Kg		107	70 - 130
1,2,4-Trimethylbenzene	20.0	20.2		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	20.0	21.0		ug/Kg		105	70 - 130
Vinyl chloride	20.0	22.7		ug/Kg		113	70 - 130
m,p-Xylene	40.0	43.5		ug/Kg		109	70 - 130
o-Xylene	20.0	19.7		ug/Kg		98	70 - 130
Tetrahydrofuran	20.0	21.6		ug/Kg		108	70 - 130
Ethyl ether	20.0	21.8		ug/Kg		109	70 - 130
Tert-amyl methyl ether	20.0	21.3		ug/Kg		107	70 - 130
Ethyl tert-butyl ether	20.0	20.4		ug/Kg		102	70 - 130
di-Isopropyl ether	20.0	20.9		ug/Kg		105	70 - 130
tert-Butanol	200	223		ug/Kg		112	70 - 130
1,4-Dioxane	200	177		ug/Kg		88	70 - 130
trans-1,4-Dichloro-2-butene	20.0	24.4	J	ug/Kg		122	70 - 130
Ethanol	400	434	J	ug/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Lab Sample ID: LCSD 620-33991/2-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	20.8		ug/Kg		104	70 - 130	7	30
Acetone	20.0	16.5	J	ug/Kg		82	70 - 130	5	30
Acrylonitrile	20.0	17.6		ug/Kg		88	70 - 130	21	30
Benzene	20.0	21.2		ug/Kg		106	70 - 130	10	30
Bromobenzene	20.0	17.5		ug/Kg		88	70 - 130	12	30
Bromochloromethane	20.0	21.0		ug/Kg		105	70 - 130	10	30
Bromodichloromethane	20.0	21.0		ug/Kg		105	70 - 130	15	30
Bromoform	20.0	17.1		ug/Kg		85	70 - 130	17	30
Bromomethane	20.0	21.0		ug/Kg		105	70 - 130	1	30
2-Butanone (MEK)	20.0	12.7	*-	ug/Kg		64	70 - 130	15	30
n-Butylbenzene	20.0	16.5		ug/Kg		82	70 - 130	18	30
sec-Butylbenzene	20.0	17.3		ug/Kg		86	70 - 130	19	30
tert-Butylbenzene	20.0	17.7		ug/Kg		88	70 - 130	21	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-33991/2-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	20.0	21.8		ug/Kg		109	70 - 130	6	30
Carbon tetrachloride	20.0	21.3		ug/Kg		106	70 - 130	9	30
Chlorobenzene	20.0	19.2		ug/Kg		96	70 - 130	10	30
Chloroethane	20.0	21.7		ug/Kg		109	70 - 130	1	30
Chloroform	20.0	21.1		ug/Kg		106	70 - 130	11	30
Chloromethane	20.0	21.1		ug/Kg		106	70 - 130	2	30
2-Chlorotoluene	20.0	18.3		ug/Kg		91	70 - 130	13	30
4-Chlorotoluene	20.0	18.4		ug/Kg		92	70 - 130	12	30
1,2-Dibromo-3-Chloropropane	20.0	15.3		ug/Kg		76	70 - 130	17	30
Dibromochloromethane	20.0	19.7		ug/Kg		98	70 - 130	17	30
1,2-Dibromoethane (EDB)	20.0	19.1		ug/Kg		96	70 - 130	18	30
Dibromomethane	20.0	20.5		ug/Kg		102	70 - 130	13	30
1,2-Dichlorobenzene	20.0	16.5		ug/Kg		83	70 - 130	13	30
1,3-Dichlorobenzene	20.0	18.3		ug/Kg		91	70 - 130	13	30
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		89	70 - 130	11	30
Dichlorodifluoromethane (Freon 12)	20.0	17.9		ug/Kg		89	70 - 130	5	30
1,1-Dichloroethane	20.0	22.9		ug/Kg		114	70 - 130	9	30
1,2-Dichloroethane	20.0	20.7		ug/Kg		104	70 - 130	14	30
1,1-Dichloroethene	20.0	23.2		ug/Kg		116	70 - 130	5	30
cis-1,2-Dichloroethene	20.0	21.2		ug/Kg		106	70 - 130	9	30
trans-1,2-Dichloroethene	20.0	22.6		ug/Kg		113	70 - 130	6	30
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	70 - 130	13	30
1,3-Dichloropropane	20.0	18.9		ug/Kg		94	70 - 130	19	30
2,2-Dichloropropane	20.0	22.1		ug/Kg		110	70 - 130	8	30
1,1-Dichloropropene	20.0	19.9		ug/Kg		99	70 - 130	9	30
cis-1,3-Dichloropropene	20.0	17.9		ug/Kg		89	70 - 130	16	30
trans-1,3-Dichloropropene	20.0	20.1		ug/Kg		101	70 - 130	17	30
Ethylbenzene	20.0	19.0		ug/Kg		95	70 - 130	9	30
Hexachlorobutadiene	20.0	13.3	*- *1	ug/Kg		66	70 - 130	32	30
2-Hexanone (MBK)	20.0	11.8	*-	ug/Kg		59	70 - 130	15	30
Isopropylbenzene	20.0	16.7		ug/Kg		83	70 - 130	13	30
4-Isopropyltoluene	20.0	15.7		ug/Kg		78	70 - 130	16	30
Methyl tert-butyl ether	20.0	18.9		ug/Kg		94	70 - 130	16	30
4-Methyl-2-pentanone (MIBK)	20.0	15.6		ug/Kg		78	70 - 130	18	30
Methylene Chloride	20.0	24.3		ug/Kg		121	70 - 130	1	30
Naphthalene	20.0	14.8		ug/Kg		74	70 - 130	22	30
N-Propylbenzene	20.0	18.6		ug/Kg		93	70 - 130	13	30
Styrene	20.0	16.5		ug/Kg		82	70 - 130	15	30
1,1,1,2-Tetrachloroethane	20.0	18.1		ug/Kg		90	70 - 130	11	30
1,1,2,2-Tetrachloroethane	20.0	17.7		ug/Kg		88	70 - 130	18	30
Tetrachloroethene	20.0	20.2		ug/Kg		101	70 - 130	10	30
Toluene	20.0	21.0		ug/Kg		105	70 - 130	11	30
1,2,3-Trichlorobenzene	20.0	16.0		ug/Kg		80	70 - 130	20	30
1,2,4-Trichlorobenzene	20.0	16.2		ug/Kg		81	70 - 130	22	30
1,3,5-Trichlorobenzene	20.0	15.8		ug/Kg		79	70 - 130	17	30
1,1,1-Trichloroethane	20.0	21.9		ug/Kg		110	70 - 130	12	30
1,1,2-Trichloroethane	20.0	20.7		ug/Kg		104	70 - 130	18	30
Trichloroethene	20.0	20.2		ug/Kg		101	70 - 130	11	30

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-33991/2-A

Matrix: Solid

Analysis Batch: 33992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichlorofluoromethane (Freon 11)	20.0	23.2		ug/Kg		116	70 - 130	5	30
1,2,3-Trichloropropane	20.0	18.1		ug/Kg		90	70 - 130	17	30
1,2,4-Trimethylbenzene	20.0	17.6		ug/Kg		88	70 - 130	14	30
1,3,5-Trimethylbenzene	20.0	18.2		ug/Kg		91	70 - 130	14	30
Vinyl chloride	20.0	22.0		ug/Kg		110	70 - 130	3	30
m,p-Xylene	40.0	40.0		ug/Kg		100	70 - 130	8	30
o-Xylene	20.0	17.5		ug/Kg		88	70 - 130	11	30
Tetrahydrofuran	20.0	18.2		ug/Kg		91	70 - 130	17	30
Ethyl ether	20.0	19.1		ug/Kg		96	70 - 130	13	30
Tert-amyl methyl ether	20.0	17.2		ug/Kg		86	70 - 130	21	30
Ethyl tert-butyl ether	20.0	17.7		ug/Kg		88	70 - 130	14	30
di-Isopropyl ether	20.0	18.4		ug/Kg		92	70 - 130	13	30
tert-Butanol	200	174		ug/Kg		87	70 - 130	25	30
1,4-Dioxane	200	157		ug/Kg		79	70 - 130	12	30
trans-1,4-Dichloro-2-butene	20.0	19.3	J	ug/Kg		96	70 - 130	24	30
Ethanol	400	359	J	ug/Kg		90	70 - 130	19	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130

Lab Sample ID: MB 620-34164/7

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.0	ug/L			04/26/24 17:13	1
Acetone	ND		10	ug/L			04/26/24 17:13	1
Acrylonitrile	ND		1.0	ug/L			04/26/24 17:13	1
Benzene	ND		1.0	ug/L			04/26/24 17:13	1
Bromobenzene	ND		1.0	ug/L			04/26/24 17:13	1
Bromochloromethane	ND		1.0	ug/L			04/26/24 17:13	1
Bromodichloromethane	ND		0.50	ug/L			04/26/24 17:13	1
Bromoform	ND		1.0	ug/L			04/26/24 17:13	1
Bromomethane	ND		2.0	ug/L			04/26/24 17:13	1
2-Butanone (MEK)	ND		2.0	ug/L			04/26/24 17:13	1
n-Butylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
sec-Butylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
tert-Butylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
Carbon disulfide	ND		2.0	ug/L			04/26/24 17:13	1
Carbon tetrachloride	ND		1.0	ug/L			04/26/24 17:13	1
Chlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
Chloroethane	ND		2.0	ug/L			04/26/24 17:13	1
Chloroform	ND		1.0	ug/L			04/26/24 17:13	1
Chloromethane	ND		2.0	ug/L			04/26/24 17:13	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: MB 620-34164/7

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0	ug/L			04/26/24 17:13	1
4-Chlorotoluene	ND		1.0	ug/L			04/26/24 17:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/26/24 17:13	1
Dibromochloromethane	ND		0.50	ug/L			04/26/24 17:13	1
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			04/26/24 17:13	1
Dibromomethane	ND		1.0	ug/L			04/26/24 17:13	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
Dichlorodifluoromethane (Freon 12)	ND		2.0	ug/L			04/26/24 17:13	1
1,1-Dichloroethane	ND		1.0	ug/L			04/26/24 17:13	1
1,2-Dichloroethane	ND		1.0	ug/L			04/26/24 17:13	1
1,1-Dichloroethene	ND		1.0	ug/L			04/26/24 17:13	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/26/24 17:13	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/26/24 17:13	1
1,2-Dichloropropane	ND		1.0	ug/L			04/26/24 17:13	1
1,3-Dichloropropane	ND		1.0	ug/L			04/26/24 17:13	1
2,2-Dichloropropane	ND		1.0	ug/L			04/26/24 17:13	1
1,1-Dichloropropene	ND		1.0	ug/L			04/26/24 17:13	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/26/24 17:13	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/26/24 17:13	1
Ethylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
Hexachlorobutadiene	ND		1.0	ug/L			04/26/24 17:13	1
2-Hexanone (MBK)	ND		2.0	ug/L			04/26/24 17:13	1
Isopropylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
4-Isopropyltoluene	ND		1.0	ug/L			04/26/24 17:13	1
Methyl tert-butyl ether	ND		1.0	ug/L			04/26/24 17:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.0	ug/L			04/26/24 17:13	1
Methylene Chloride	ND		2.0	ug/L			04/26/24 17:13	1
Naphthalene	ND		2.0	ug/L			04/26/24 17:13	1
N-Propylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
Styrene	ND		1.0	ug/L			04/26/24 17:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/26/24 17:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/26/24 17:13	1
Tetrachloroethene	ND		1.0	ug/L			04/26/24 17:13	1
Toluene	ND		1.0	ug/L			04/26/24 17:13	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,3,5-Trichlorobenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/26/24 17:13	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/26/24 17:13	1
Trichloroethene	ND		1.0	ug/L			04/26/24 17:13	1
Trichlorofluoromethane (Freon 11)	ND		1.0	ug/L			04/26/24 17:13	1
1,2,3-Trichloropropane	ND		1.0	ug/L			04/26/24 17:13	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/26/24 17:13	1
Vinyl chloride	ND		1.0	ug/L			04/26/24 17:13	1
m,p-Xylene	ND		1.0	ug/L			04/26/24 17:13	1
o-Xylene	ND		1.0	ug/L			04/26/24 17:13	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: MB 620-34164/7

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		2.0	ug/L			04/26/24 17:13	1
Ethyl ether	ND		1.0	ug/L			04/26/24 17:13	1
Tert-amyl methyl ether	ND		1.0	ug/L			04/26/24 17:13	1
Ethyl tert-butyl ether	ND		1.0	ug/L			04/26/24 17:13	1
di-Isopropyl ether	ND		1.0	ug/L			04/26/24 17:13	1
tert-Butanol	ND		10	ug/L			04/26/24 17:13	1
1,4-Dioxane	ND		50	ug/L			04/26/24 17:13	1
trans-1,4-Dichloro-2-butene	ND		5.0	ug/L			04/26/24 17:13	1
Ethanol	ND		200	ug/L			04/26/24 17:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		04/26/24 17:13	1
Toluene-d8 (Surr)	98		70 - 130		04/26/24 17:13	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		04/26/24 17:13	1
Dibromofluoromethane (Surr)	92		70 - 130		04/26/24 17:13	1

Lab Sample ID: LCS 620-34164/4

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.8		ug/L		89	85 - 124
Acetone	20.0	10.9		ug/L		55	14 - 133
Acrylonitrile	20.0	22.2		ug/L		111	62 - 134
Benzene	20.0	20.6		ug/L		103	86 - 111
Bromobenzene	20.0	17.9		ug/L		90	82 - 120
Bromochloromethane	20.0	19.7		ug/L		98	83 - 123
Bromodichloromethane	20.0	18.7		ug/L		94	83 - 137
Bromoform	20.0	18.6		ug/L		93	91 - 137
Bromomethane	20.0	15.3		ug/L		77	29 - 148
2-Butanone (MEK)	20.0	12.7		ug/L		64	10 - 200
n-Butylbenzene	20.0	20.8		ug/L		104	85 - 138
sec-Butylbenzene	20.0	20.8		ug/L		104	75 - 118
tert-Butylbenzene	20.0	19.8		ug/L		99	85 - 122
Carbon disulfide	20.0	19.9		ug/L		100	69 - 150
Carbon tetrachloride	20.0	16.6	*-	ug/L		83	84 - 123
Chlorobenzene	20.0	20.1		ug/L		101	93 - 115
Chloroethane	20.0	16.7		ug/L		84	56 - 155
Chloroform	20.0	17.5		ug/L		87	84 - 116
Chloromethane	20.0	22.2		ug/L		111	45 - 138
2-Chlorotoluene	20.0	19.7		ug/L		98	88 - 116
4-Chlorotoluene	20.0	19.8		ug/L		99	81 - 128
1,2-Dibromo-3-Chloropropane	20.0	16.8		ug/L		84	70 - 139
Dibromochloromethane	20.0	18.7		ug/L		93	83 - 132
1,2-Dibromoethane (EDB)	20.0	19.2		ug/L		96	82 - 125
Dibromomethane	20.0	18.3		ug/L		91	80 - 125
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	84 - 128
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	85 - 120

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-34164/4

Matrix: Water

Analysis Batch: 34164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	86 - 116
Dichlorodifluoromethane (Freon 12)	20.0	15.2		ug/L		76	36 - 131
1,1-Dichloroethane	20.0	20.8		ug/L		104	81 - 120
1,2-Dichloroethane	20.0	16.2	*-	ug/L		81	82 - 116
1,1-Dichloroethene	20.0	20.3		ug/L		102	83 - 120
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	81 - 124
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	81 - 127
1,2-Dichloropropane	20.0	22.1		ug/L		110	76 - 132
1,3-Dichloropropane	20.0	18.8		ug/L		94	74 - 122
2,2-Dichloropropane	20.0	18.6		ug/L		93	77 - 130
1,1-Dichloropropene	20.0	17.1		ug/L		85	81 - 115
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	74 - 129
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	78 - 126
Ethylbenzene	20.0	19.9		ug/L		100	89 - 117
Hexachlorobutadiene	20.0	16.5		ug/L		82	77 - 118
2-Hexanone (MBK)	20.0	16.1		ug/L		80	37 - 123
Isopropylbenzene	20.0	20.5		ug/L		102	83 - 117
4-Isopropyltoluene	20.0	20.5		ug/L		103	83 - 124
Methyl tert-butyl ether	20.0	17.0		ug/L		85	70 - 126
4-Methyl-2-pentanone (MIBK)	20.0	19.7		ug/L		98	59 - 118
Methylene Chloride	20.0	21.6		ug/L		108	75 - 121
Naphthalene	20.0	13.5		ug/L		67	67 - 123
N-Propylbenzene	20.0	20.8		ug/L		104	84 - 128
Styrene	20.0	21.9		ug/L		110	78 - 127
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	91 - 118
1,1,2,2-Tetrachloroethane	20.0	18.4		ug/L		92	77 - 129
Tetrachloroethene	20.0	18.6		ug/L		93	85 - 116
Toluene	20.0	20.5		ug/L		102	88 - 109
1,2,3-Trichlorobenzene	20.0	16.6		ug/L		83	67 - 134
1,2,4-Trichlorobenzene	20.0	16.2		ug/L		81	78 - 133
1,3,5-Trichlorobenzene	20.0	18.7		ug/L		94	77 - 127
1,1,1-Trichloroethane	20.0	17.6		ug/L		88	83 - 124
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	84 - 132
Trichloroethene	20.0	17.9		ug/L		90	74 - 118
Trichlorofluoromethane (Freon 11)	20.0	16.6		ug/L		83	82 - 126
1,2,3-Trichloropropane	20.0	17.5		ug/L		88	77 - 124
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		105	89 - 126
1,3,5-Trimethylbenzene	20.0	20.8		ug/L		104	89 - 125
Vinyl chloride	20.0	19.9		ug/L		100	62 - 130
m,p-Xylene	40.0	42.9		ug/L		107	85 - 123
o-Xylene	20.0	19.8		ug/L		99	85 - 119
Tetrahydrofuran	20.0	16.9		ug/L		85	60 - 133
Ethyl ether	20.0	18.3		ug/L		91	69 - 122
Tert-amyl methyl ether	20.0	18.0		ug/L		90	50 - 140
Ethyl tert-butyl ether	20.0	18.0		ug/L		90	60 - 131
di-Isopropyl ether	20.0	20.4		ug/L		102	67 - 125
tert-Butanol	200	180		ug/L		90	50 - 169

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-34164/4

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	200	161		ug/L		81	28 - 150
trans-1,4-Dichloro-2-butene	20.0	23.7		ug/L		118	48 - 153
Ethanol	400	387		ug/L		97	47 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

Lab Sample ID: LCSD 620-34164/5

Matrix: Water

Analysis Batch: 34164

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 Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.8	*-	ug/L		84	85 - 124	6	20
Acetone	20.0	10.5		ug/L		52	14 - 133	4	20
Acrylonitrile	20.0	20.9		ug/L		104	62 - 134	6	20
Benzene	20.0	20.2		ug/L		101	86 - 111	2	20
Bromobenzene	20.0	17.5		ug/L		87	82 - 120	2	20
Bromochloromethane	20.0	19.2		ug/L		96	83 - 123	2	20
Bromodichloromethane	20.0	18.5		ug/L		92	83 - 137	1	20
Bromoform	20.0	18.2		ug/L		91	91 - 137	2	20
Bromomethane	20.0	14.9		ug/L		74	29 - 148	3	20
2-Butanone (MEK)	20.0	12.2		ug/L		61	10 - 200	4	20
n-Butylbenzene	20.0	20.8		ug/L		104	85 - 138	0	20
sec-Butylbenzene	20.0	20.4		ug/L		102	75 - 118	2	20
tert-Butylbenzene	20.0	19.6		ug/L		98	85 - 122	1	20
Carbon disulfide	20.0	19.1		ug/L		96	69 - 150	4	20
Carbon tetrachloride	20.0	16.2	*-	ug/L		81	84 - 123	2	20
Chlorobenzene	20.0	19.9		ug/L		99	93 - 115	1	20
Chloroethane	20.0	16.0		ug/L		80	56 - 155	5	20
Chloroform	20.0	17.1		ug/L		85	84 - 116	2	20
Chloromethane	20.0	21.9		ug/L		110	45 - 138	1	20
2-Chlorotoluene	20.0	19.4		ug/L		97	88 - 116	1	20
4-Chlorotoluene	20.0	19.5		ug/L		97	81 - 128	2	20
1,2-Dibromo-3-Chloropropane	20.0	17.3		ug/L		86	70 - 139	3	20
Dibromochloromethane	20.0	18.4		ug/L		92	83 - 132	1	20
1,2-Dibromoethane (EDB)	20.0	18.7		ug/L		94	82 - 125	3	20
Dibromomethane	20.0	18.1		ug/L		91	80 - 125	1	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	84 - 128	2	20
1,3-Dichlorobenzene	20.0	19.5		ug/L		97	85 - 120	3	20
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	86 - 116	2	20
Dichlorodifluoromethane (Freon 12)	20.0	14.6		ug/L		73	36 - 131	4	20
1,1-Dichloroethane	20.0	20.7		ug/L		104	81 - 120	1	20
1,2-Dichloroethane	20.0	15.8	*-	ug/L		79	82 - 116	2	20
1,1-Dichloroethene	20.0	20.3		ug/L		101	83 - 120	0	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-34164/5

Matrix: Water

Analysis Batch: 34164

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 Limit
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	81 - 124	1	20
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	81 - 127	1	20
1,2-Dichloropropane	20.0	21.6		ug/L		108	76 - 132	2	20
1,3-Dichloropropane	20.0	18.7		ug/L		94	74 - 122	0	20
2,2-Dichloropropane	20.0	18.0		ug/L		90	77 - 130	3	20
1,1-Dichloropropene	20.0	17.3		ug/L		86	81 - 115	1	20
cis-1,3-Dichloropropene	20.0	19.3		ug/L		97	74 - 129	2	20
trans-1,3-Dichloropropene	20.0	20.1		ug/L		100	78 - 126	0	20
Ethylbenzene	20.0	19.8		ug/L		99	89 - 117	1	20
Hexachlorobutadiene	20.0	16.0		ug/L		80	77 - 118	3	20
2-Hexanone (MBK)	20.0	15.8		ug/L		79	37 - 123	2	20
Isopropylbenzene	20.0	20.1		ug/L		100	83 - 117	2	20
4-Isopropyltoluene	20.0	19.9		ug/L		100	83 - 124	3	20
Methyl tert-butyl ether	20.0	17.1		ug/L		85	70 - 126	0	20
4-Methyl-2-pentanone (MIBK)	20.0	19.5		ug/L		98	59 - 118	1	20
Methylene Chloride	20.0	21.1		ug/L		105	75 - 121	2	20
Naphthalene	20.0	13.9		ug/L		69	67 - 123	3	20
N-Propylbenzene	20.0	20.4		ug/L		102	84 - 128	2	20
Styrene	20.0	21.7		ug/L		108	78 - 127	1	20
1,1,1,2-Tetrachloroethane	20.0	18.0	*-	ug/L		90	91 - 118	3	20
1,1,2,2-Tetrachloroethane	20.0	18.3		ug/L		91	77 - 129	1	20
Tetrachloroethene	20.0	18.1		ug/L		90	85 - 116	3	20
Toluene	20.0	19.8		ug/L		99	88 - 109	4	20
1,2,3-Trichlorobenzene	20.0	17.1		ug/L		86	67 - 134	3	20
1,2,4-Trichlorobenzene	20.0	16.4		ug/L		82	78 - 133	1	20
1,3,5-Trichlorobenzene	20.0	18.7		ug/L		94	77 - 127	0	20
1,1,1-Trichloroethane	20.0	17.0		ug/L		85	83 - 124	3	20
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	84 - 132	1	20
Trichloroethene	20.0	17.1		ug/L		86	74 - 118	5	20
Trichlorofluoromethane (Freon 11)	20.0	16.2	*-	ug/L		81	82 - 126	2	20
1,2,3-Trichloropropane	20.0	17.2		ug/L		86	77 - 124	2	20
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	89 - 126	2	20
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	89 - 125	3	20
Vinyl chloride	20.0	19.4		ug/L		97	62 - 130	3	20
m,p-Xylene	40.0	42.4		ug/L		106	85 - 123	1	20
o-Xylene	20.0	19.9		ug/L		99	85 - 119	0	20
Tetrahydrofuran	20.0	17.4		ug/L		87	60 - 133	3	20
Ethyl ether	20.0	17.7		ug/L		89	69 - 122	3	20
Tert-amyl methyl ether	20.0	18.0		ug/L		90	50 - 140	0	20
Ethyl tert-butyl ether	20.0	18.1		ug/L		91	60 - 131	1	20
di-Isopropyl ether	20.0	20.4		ug/L		102	67 - 125	0	20
tert-Butanol	200	178		ug/L		89	50 - 169	1	20
1,4-Dioxane	200	168		ug/L		84	28 - 150	4	20
trans-1,4-Dichloro-2-butene	20.0	23.6		ug/L		118	48 - 153	0	20
Ethanol	400	389		ug/L		97	47 - 170	0	20

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-34164/5

Matrix: Water

Analysis Batch: 34164

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

Lab Sample ID: MB 620-34205/3-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34205

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Acetone	ND		500	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Acrylonitrile	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Benzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Bromobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Bromochloromethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Bromodichloromethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Bromoform	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Bromomethane	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
2-Butanone (MEK)	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
n-Butylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
sec-Butylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
tert-Butylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Carbon disulfide	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Carbon tetrachloride	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Chlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Chloroethane	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Chloroform	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Chloromethane	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
2-Chlorotoluene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
4-Chlorotoluene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2-Dibromo-3-Chloropropane	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Dibromochloromethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2-Dibromoethane (EDB)	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Dibromomethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2-Dichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,3-Dichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,4-Dichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Dichlorodifluoromethane (Freon 12)	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1-Dichloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2-Dichloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1-Dichloroethene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
cis-1,2-Dichloroethene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
trans-1,2-Dichloroethene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2-Dichloropropane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,3-Dichloropropane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
2,2-Dichloropropane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1-Dichloropropene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: MB 620-34205/3-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34205

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
trans-1,3-Dichloropropene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Ethylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Hexachlorobutadiene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
2-Hexanone (MBK)	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Isopropylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
4-Isopropyltoluene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Methyl tert-butyl ether	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Methylene Chloride	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Naphthalene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
N-Propylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Styrene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1,1,2-Tetrachloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1,2,2-Tetrachloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Tetrachloroethene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Toluene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2,3-Trichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2,4-Trichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,3,5-Trichlorobenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1,1-Trichloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,1,2-Trichloroethane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Trichloroethene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Trichlorofluoromethane (Freon 11)	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2,3-Trichloropropane	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,2,4-Trimethylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,3,5-Trimethylbenzene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Vinyl chloride	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
m,p-Xylene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
o-Xylene	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Tetrahydrofuran	ND		100	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Ethyl ether	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Tert-amyl methyl ether	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Ethyl tert-butyl ether	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
di-Isopropyl ether	ND		50	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
tert-Butanol	ND		1000	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
1,4-Dioxane	ND		1000	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
trans-1,4-Dichloro-2-butene	ND		250	ug/Kg		04/28/24 12:19	04/28/24 15:52	1
Ethanol	ND		10000	ug/Kg		04/28/24 12:19	04/28/24 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	04/28/24 12:19	04/28/24 15:52	1
Toluene-d8 (Surr)	100		70 - 130	04/28/24 12:19	04/28/24 15:52	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130	04/28/24 12:19	04/28/24 15:52	1
Dibromofluoromethane (Surr)	93		70 - 130	04/28/24 12:19	04/28/24 15:52	1

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-34205/1-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	979		ug/Kg		98	91 - 125
Acetone	1000	588		ug/Kg		59	47 - 157
Acrylonitrile	1000	1240		ug/Kg		124	79 - 129
Benzene	1000	1120		ug/Kg		112	88 - 130
Bromobenzene	1000	944		ug/Kg		94	81 - 125
Bromochloromethane	1000	1090		ug/Kg		109	85 - 139
Bromodichloromethane	1000	1020		ug/Kg		102	84 - 134
Bromoform	1000	1040		ug/Kg		104	83 - 131
Bromomethane	1000	913		ug/Kg		91	63 - 157
2-Butanone (MEK)	1000	796		ug/Kg		80	58 - 161
n-Butylbenzene	1000	1050		ug/Kg		105	83 - 137
sec-Butylbenzene	1000	1100		ug/Kg		110	79 - 131
tert-Butylbenzene	1000	1070		ug/Kg		107	82 - 131
Carbon disulfide	1000	1130		ug/Kg		113	82 - 135
Carbon tetrachloride	1000	928		ug/Kg		93	77 - 139
Chlorobenzene	1000	1080		ug/Kg		108	85 - 121
Chloroethane	1000	918		ug/Kg		92	61 - 156
Chloroform	1000	953		ug/Kg		95	89 - 123
Chloromethane	1000	1400	+	ug/Kg		140	81 - 130
2-Chlorotoluene	1000	1050		ug/Kg		105	90 - 117
4-Chlorotoluene	1000	1050		ug/Kg		105	88 - 121
1,2-Dibromo-3-Chloropropane	1000	865		ug/Kg		87	75 - 142
Dibromochloromethane	1000	1030		ug/Kg		103	85 - 131
1,2-Dibromoethane (EDB)	1000	1050		ug/Kg		105	85 - 133
Dibromomethane	1000	999		ug/Kg		100	90 - 128
1,2-Dichlorobenzene	1000	1060		ug/Kg		106	88 - 128
1,3-Dichlorobenzene	1000	1060		ug/Kg		106	78 - 133
1,4-Dichlorobenzene	1000	1040		ug/Kg		104	88 - 121
Dichlorodifluoromethane (Freon 12)	1000	1110		ug/Kg		111	55 - 159
1,1-Dichloroethane	1000	1140		ug/Kg		114	89 - 129
1,2-Dichloroethane	1000	870		ug/Kg		87	82 - 137
1,1-Dichloroethene	1000	1130		ug/Kg		113	82 - 138
cis-1,2-Dichloroethene	1000	1080		ug/Kg		108	79 - 133
trans-1,2-Dichloroethene	1000	1130		ug/Kg		113	81 - 137
1,2-Dichloropropane	1000	1190		ug/Kg		119	89 - 128
1,3-Dichloropropane	1000	1030		ug/Kg		103	86 - 133
2,2-Dichloropropane	1000	1010		ug/Kg		101	91 - 131
1,1-Dichloropropene	1000	945		ug/Kg		95	75 - 137
cis-1,3-Dichloropropene	1000	1040		ug/Kg		104	84 - 122
trans-1,3-Dichloropropene	1000	1130		ug/Kg		113	90 - 121
Ethylbenzene	1000	1060		ug/Kg		106	89 - 126
Hexachlorobutadiene	1000	872		ug/Kg		87	74 - 131
2-Hexanone (MBK)	1000	921		ug/Kg		92	41 - 167
Isopropylbenzene	1000	1090		ug/Kg		109	88 - 125
4-Isopropyltoluene	1000	1060		ug/Kg		106	86 - 128
Methyl tert-butyl ether	1000	941		ug/Kg		94	74 - 144
4-Methyl-2-pentanone (MIBK)	1000	1140		ug/Kg		114	80 - 135

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QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCS 620-34205/1-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	1000	1180		ug/Kg		118	87 - 119
Naphthalene	1000	760		ug/Kg		76	60 - 145
N-Propylbenzene	1000	1110		ug/Kg		111	87 - 120
Styrene	1000	1180		ug/Kg		118	88 - 125
1,1,1,2-Tetrachloroethane	1000	998		ug/Kg		100	81 - 128
1,1,2,2-Tetrachloroethane	1000	1030		ug/Kg		103	88 - 126
Tetrachloroethene	1000	980		ug/Kg		98	81 - 124
Toluene	1000	1090		ug/Kg		109	84 - 124
1,2,3-Trichlorobenzene	1000	890		ug/Kg		89	68 - 145
1,2,4-Trichlorobenzene	1000	871		ug/Kg		87	57 - 141
1,3,5-Trichlorobenzene	1000	971		ug/Kg		97	70 - 137
1,1,1-Trichloroethane	1000	965		ug/Kg		96	88 - 131
1,1,2-Trichloroethane	1000	1130		ug/Kg		113	91 - 129
Trichloroethene	1000	1060		ug/Kg		106	88 - 131
Trichlorofluoromethane (Freon 11)	1000	945		ug/Kg		94	86 - 130
1,2,3-Trichloropropane	1000	980		ug/Kg		98	92 - 126
1,2,4-Trimethylbenzene	1000	1110		ug/Kg		111	87 - 126
1,3,5-Trimethylbenzene	1000	1100		ug/Kg		110	90 - 125
Vinyl chloride	1000	1190		ug/Kg		119	73 - 145
m,p-Xylene	2000	2290		ug/Kg		115	83 - 122
o-Xylene	1000	1060		ug/Kg		106	87 - 122
Tetrahydrofuran	1000	1100		ug/Kg		110	81 - 134
Ethyl ether	1000	1010		ug/Kg		101	84 - 144
Tert-amyl methyl ether	1000	983		ug/Kg		98	69 - 151
Ethyl tert-butyl ether	1000	986		ug/Kg		99	75 - 128
di-Isopropyl ether	1000	1110		ug/Kg		111	82 - 131
tert-Butanol	10000	10900		ug/Kg		109	85 - 148
1,4-Dioxane	10000	9890		ug/Kg		99	10 - 178
trans-1,4-Dichloro-2-butene	1000	1440		ug/Kg		144	74 - 151
Ethanol	20000	22100		ug/Kg		110	83 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

Lab Sample ID: LCSD 620-34205/2-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	1000	1010		ug/Kg		101	91 - 125	3	30
Acetone	1000	681		ug/Kg		68	47 - 157	15	30
Acrylonitrile	1000	1230		ug/Kg		123	79 - 129	1	30
Benzene	1000	1140		ug/Kg		114	88 - 130	3	30
Bromobenzene	1000	974		ug/Kg		97	81 - 125	3	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-34205/2-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	1000	1110		ug/Kg		111	85 - 139	1	30
Bromodichloromethane	1000	1050		ug/Kg		105	84 - 134	3	30
Bromoform	1000	1070		ug/Kg		107	83 - 131	3	30
Bromomethane	1000	936		ug/Kg		94	63 - 157	2	30
2-Butanone (MEK)	1000	879		ug/Kg		88	58 - 161	10	30
n-Butylbenzene	1000	1070		ug/Kg		107	83 - 137	2	30
sec-Butylbenzene	1000	1120		ug/Kg		112	79 - 131	2	30
tert-Butylbenzene	1000	1100		ug/Kg		110	82 - 131	3	30
Carbon disulfide	1000	1140		ug/Kg		114	82 - 135	1	30
Carbon tetrachloride	1000	937		ug/Kg		94	77 - 139	1	30
Chlorobenzene	1000	1090		ug/Kg		109	85 - 121	2	30
Chloroethane	1000	947		ug/Kg		95	61 - 156	3	30
Chloroform	1000	963		ug/Kg		96	89 - 123	1	30
Chloromethane	1000	1400	+	ug/Kg		140	81 - 130	0	30
2-Chlorotoluene	1000	1060		ug/Kg		106	90 - 117	1	30
4-Chlorotoluene	1000	1060		ug/Kg		106	88 - 121	1	30
1,2-Dibromo-3-Chloropropane	1000	862		ug/Kg		86	75 - 142	0	30
Dibromochloromethane	1000	1050		ug/Kg		105	85 - 131	2	30
1,2-Dibromoethane (EDB)	1000	1090		ug/Kg		109	85 - 133	4	30
Dibromomethane	1000	1040		ug/Kg		104	90 - 128	4	30
1,2-Dichlorobenzene	1000	1090		ug/Kg		109	88 - 128	3	30
1,3-Dichlorobenzene	1000	1080		ug/Kg		108	78 - 133	2	30
1,4-Dichlorobenzene	1000	1060		ug/Kg		106	88 - 121	2	30
Dichlorodifluoromethane (Freon 12)	1000	1120		ug/Kg		112	55 - 159	1	30
1,1-Dichloroethane	1000	1160		ug/Kg		116	89 - 129	2	30
1,2-Dichloroethane	1000	896		ug/Kg		90	82 - 137	3	30
1,1-Dichloroethene	1000	1170		ug/Kg		117	82 - 138	3	30
cis-1,2-Dichloroethene	1000	1130		ug/Kg		113	79 - 133	5	30
trans-1,2-Dichloroethene	1000	1130		ug/Kg		113	81 - 137	0	30
1,2-Dichloropropane	1000	1230		ug/Kg		123	89 - 128	3	30
1,3-Dichloropropane	1000	1060		ug/Kg		106	86 - 133	2	30
2,2-Dichloropropane	1000	1010		ug/Kg		101	91 - 131	0	30
1,1-Dichloropropene	1000	995		ug/Kg		100	75 - 137	5	30
cis-1,3-Dichloropropene	1000	1090		ug/Kg		109	84 - 122	4	30
trans-1,3-Dichloropropene	1000	1160		ug/Kg		116	90 - 121	3	30
Ethylbenzene	1000	1080		ug/Kg		108	89 - 126	1	30
Hexachlorobutadiene	1000	867		ug/Kg		87	74 - 131	1	30
2-Hexanone (MBK)	1000	966		ug/Kg		97	41 - 167	5	30
Isopropylbenzene	1000	1110		ug/Kg		111	88 - 125	2	30
4-Isopropyltoluene	1000	1070		ug/Kg		107	86 - 128	1	30
Methyl tert-butyl ether	1000	993		ug/Kg		99	74 - 144	5	30
4-Methyl-2-pentanone (MIBK)	1000	1170		ug/Kg		117	80 - 135	3	30
Methylene Chloride	1000	1190		ug/Kg		119	87 - 119	1	30
Naphthalene	1000	819		ug/Kg		82	60 - 145	7	30
N-Propylbenzene	1000	1120		ug/Kg		112	87 - 120	1	30
Styrene	1000	1190		ug/Kg		119	88 - 125	1	30
1,1,1,2-Tetrachloroethane	1000	988		ug/Kg		99	81 - 128	1	30
1,1,2,2-Tetrachloroethane	1000	1040		ug/Kg		104	88 - 126	1	30

Eurofins Rhode Island

QC Sample Results

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

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

Lab Sample ID: LCSD 620-34205/2-A

Matrix: Solid

Analysis Batch: 34206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	1000	1010		ug/Kg		101	81 - 124	3	30
Toluene	1000	1100		ug/Kg		110	84 - 124	1	30
1,2,3-Trichlorobenzene	1000	938		ug/Kg		94	68 - 145	5	30
1,2,4-Trichlorobenzene	1000	886		ug/Kg		89	57 - 141	2	30
1,3,5-Trichlorobenzene	1000	985		ug/Kg		99	70 - 137	1	30
1,1,1-Trichloroethane	1000	968		ug/Kg		97	88 - 131	0	30
1,1,2-Trichloroethane	1000	1160		ug/Kg		116	91 - 129	2	30
Trichloroethene	1000	1060		ug/Kg		106	88 - 131	1	30
Trichlorofluoromethane (Freon 11)	1000	959		ug/Kg		96	86 - 130	1	30
1,2,3-Trichloropropane	1000	972		ug/Kg		97	92 - 126	1	30
1,2,4-Trimethylbenzene	1000	1140		ug/Kg		114	87 - 126	3	30
1,3,5-Trimethylbenzene	1000	1110		ug/Kg		111	90 - 125	1	30
Vinyl chloride	1000	1230		ug/Kg		123	73 - 145	3	30
m,p-Xylene	2000	2320		ug/Kg		116	83 - 122	1	30
o-Xylene	1000	1080		ug/Kg		108	87 - 122	2	30
Tetrahydrofuran	1000	1070		ug/Kg		107	81 - 134	3	30
Ethyl ether	1000	1040		ug/Kg		104	84 - 144	3	30
Tert-amyl methyl ether	1000	1030		ug/Kg		103	69 - 151	5	30
Ethyl tert-butyl ether	1000	1040		ug/Kg		104	75 - 128	6	30
di-Isopropyl ether	1000	1170		ug/Kg		117	82 - 131	5	30
tert-Butanol	10000	11000		ug/Kg		110	85 - 148	1	30
1,4-Dioxane	10000	10400		ug/Kg		104	10 - 178	5	30
trans-1,4-Dichloro-2-butene	1000	1410		ug/Kg		141	74 - 151	2	30
Ethanol	20000	24100		ug/Kg		121	83 - 135	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

GC/MS VOA

Pre Prep Batch: 33951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6	4R Day 60b, 0.5x	Total/NA	Solid	Frozen Preserve	
620-18156-7	4R Day 60b, 1x	Total/NA	Solid	Frozen Preserve	
620-18156-8	4R Day 60b, 2x	Total/NA	Solid	Frozen Preserve	
620-18156-9	4R Day 60b, 3x	Total/NA	Solid	Frozen Preserve	
620-18156-10	4R Day 60b, ctrl	Total/NA	Solid	Frozen Preserve	
620-18156-11	4R Day 60, 0.5x	Total/NA	Solid	Frozen Preserve	
620-18156-12	4R Day 60, 1x	Total/NA	Solid	Frozen Preserve	
620-18156-13	4R Day 60, 2x	Total/NA	Solid	Frozen Preserve	
620-18156-14	4R Day 60, 2x	Total/NA	Solid	Frozen Preserve	
620-18156-15	4R Day 60, ctrl	Total/NA	Solid	Frozen Preserve	

Prep Batch: 33991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6	4R Day 60b, 0.5x	Total/NA	Solid	5035	33951
620-18156-7	4R Day 60b, 1x	Total/NA	Solid	5035	33951
620-18156-8	4R Day 60b, 2x	Total/NA	Solid	5035	33951
620-18156-9	4R Day 60b, 3x	Total/NA	Solid	5035	33951
620-18156-10	4R Day 60b, ctrl	Total/NA	Solid	5035	33951
620-18156-11	4R Day 60, 0.5x	Total/NA	Solid	5035	33951
620-18156-12	4R Day 60, 1x	Total/NA	Solid	5035	33951
620-18156-13	4R Day 60, 2x	Total/NA	Solid	5035	33951
620-18156-14	4R Day 60, 2x	Total/NA	Solid	5035	33951
620-18156-15	4R Day 60, ctrl	Total/NA	Solid	5035	33951
MB 620-33991/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 33992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6	4R Day 60b, 0.5x	Total/NA	Solid	8260C	33991
620-18156-7	4R Day 60b, 1x	Total/NA	Solid	8260C	33991
620-18156-8	4R Day 60b, 2x	Total/NA	Solid	8260C	33991
620-18156-9	4R Day 60b, 3x	Total/NA	Solid	8260C	33991
620-18156-10	4R Day 60b, ctrl	Total/NA	Solid	8260C	33991
620-18156-11	4R Day 60, 0.5x	Total/NA	Solid	8260C	33991
620-18156-12	4R Day 60, 1x	Total/NA	Solid	8260C	33991
620-18156-13	4R Day 60, 2x	Total/NA	Solid	8260C	33991
620-18156-14	4R Day 60, 2x	Total/NA	Solid	8260C	33991
620-18156-15	4R Day 60, ctrl	Total/NA	Solid	8260C	33991
MB 620-33991/3-A	Method Blank	Total/NA	Solid	8260C	33991
LCS 620-33991/1-A	Lab Control Sample	Total/NA	Solid	8260C	33991
LCSD 620-33991/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33991

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QC Association Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

GC/MS VOA

Analysis Batch: 34164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-1	4R Day 60, 0.5x	Total/NA	Water	8260C	
620-18156-2	4R Day 60, 1x	Total/NA	Water	8260C	
620-18156-3	4R Day 60, 2x	Total/NA	Water	8260C	
620-18156-4	4R Day 60, 3x	Total/NA	Water	8260C	
620-18156-5	4R Day 60, ctrl	Total/NA	Water	8260C	
MB 620-34164/7	Method Blank	Total/NA	Water	8260C	
LCS 620-34164/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-34164/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Prep Batch: 34205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6 - ME	4R Day 60b, 0.5x	Total/NA	Solid	5035	
620-18156-11 - ME	4R Day 60, 0.5x	Total/NA	Solid	5035	
MB 620-34205/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-34205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-34205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 34206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6 - ME	4R Day 60b, 0.5x	Total/NA	Solid	8260C	34205
620-18156-11 - ME	4R Day 60, 0.5x	Total/NA	Solid	8260C	34205
MB 620-34205/3-A	Method Blank	Total/NA	Solid	8260C	34205
LCS 620-34205/1-A	Lab Control Sample	Total/NA	Solid	8260C	34205
LCSD 620-34205/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	34205

General Chemistry

Analysis Batch: 33978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-18156-6	4R Day 60b, 0.5x	Total/NA	Solid	Moisture	
620-18156-7	4R Day 60b, 1x	Total/NA	Solid	Moisture	
620-18156-8	4R Day 60b, 2x	Total/NA	Solid	Moisture	
620-18156-9	4R Day 60b, 3x	Total/NA	Solid	Moisture	
620-18156-10	4R Day 60b, ctrl	Total/NA	Solid	Moisture	
620-18156-11	4R Day 60, 0.5x	Total/NA	Solid	Moisture	
620-18156-12	4R Day 60, 1x	Total/NA	Solid	Moisture	
620-18156-13	4R Day 60, 2x	Total/NA	Solid	Moisture	
620-18156-14	4R Day 60, 2x	Total/NA	Solid	Moisture	
620-18156-15	4R Day 60, ctrl	Total/NA	Solid	Moisture	
620-18156-7 DU	4R Day 60b, 1x	Total/NA	Solid	Moisture	
620-18156-14 DU	4R Day 60, 2x	Total/NA	Solid	Moisture	

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 0.5x

Date Collected: 04/15/24 08:50

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	34164	CLR	EET RI	04/26/24 23:38

Client Sample ID: 4R Day 60, 1x

Date Collected: 04/15/24 09:00

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	34164	CLR	EET RI	04/27/24 00:03

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:10

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	34164	CLR	EET RI	04/27/24 00:29

Client Sample ID: 4R Day 60, 3x

Date Collected: 04/15/24 09:20

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	34164	CLR	EET RI	04/27/24 00:55

Client Sample ID: 4R Day 60, ctrl

Date Collected: 04/15/24 09:30

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	34164	CLR	EET RI	04/26/24 23:12

Client Sample ID: 4R Day 60b, 0.5x

Date Collected: 04/15/24 08:54

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60b, 0.5x

Date Collected: 04/15/24 08:54

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-6

Matrix: Solid

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 16:52

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 0.5x

Date Collected: 04/15/24 08:54

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-6

Matrix: Solid

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		34205	CLR	EET RI	04/28/24 12:36
Total/NA	Analysis	8260C	ME	1	34206	CLR	EET RI	04/28/24 16:44

Client Sample ID: 4R Day 60b, 1x

Date Collected: 04/15/24 09:04

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60b, 1x

Date Collected: 04/15/24 09:04

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-7

Matrix: Solid

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 17:17

Client Sample ID: 4R Day 60b, 2x

Date Collected: 04/15/24 09:14

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60b, 2x

Date Collected: 04/15/24 09:14

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-8

Matrix: Solid

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 17:42

Client Sample ID: 4R Day 60b, 3x

Date Collected: 04/15/24 09:24

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60b, 3x

Date Collected: 04/15/24 09:24

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-9

Matrix: Solid

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 18:07

Client Sample ID: 4R Day 60b, ctrl

Date Collected: 04/15/24 09:34

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60b, ctrl

Date Collected: 04/15/24 09:34

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-10

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 18:32

Client Sample ID: 4R Day 60, 0.5x

Date Collected: 04/15/24 08:52

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60, 0.5x

Date Collected: 04/15/24 08:52

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-11

Matrix: Solid

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 18:57
Total/NA	Prep	5035	ME		34205	CLR	EET RI	04/28/24 12:36
Total/NA	Analysis	8260C	ME	1	34206	CLR	EET RI	04/28/24 17:10

Client Sample ID: 4R Day 60, 1x

Date Collected: 04/15/24 09:02

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, 1x

Date Collected: 04/15/24 09:02

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-12

Matrix: Solid

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 19:22

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:12

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:12

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-13

Matrix: Solid

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 19:47

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:22

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Client Sample ID: 4R Day 60, 2x

Date Collected: 04/15/24 09:22

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-14

Matrix: Solid

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 20:12

Client Sample ID: 4R Day 60, ctrl

Date Collected: 04/15/24 09:32

Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	33978	MEM	EET RI	04/22/24 10:00

Eurofins Rhode Island

Lab Chronicle

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Client Sample ID: 4R Day 60, ctrl
Date Collected: 04/15/24 09:32
Date Received: 04/19/24 17:05

Lab Sample ID: 620-18156-15
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			33951	KFS	EET RI	04/15/24 18:00
Total/NA	Prep	5035			33991	CLR	EET RI	04/22/24 11:16
Total/NA	Analysis	8260C		1	33992	CLR	EET RI	04/22/24 20:37

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

Accreditation/Certification Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2240	08-03-23 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	2-Butanone (MEK)
8260C		Water	4-Isopropyltoluene
8260C		Water	Chloromethane
8260C		Water	di-Isopropyl ether
8260C		Water	Isopropylbenzene
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	Tetrachloroethene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Rhode Island

Method Summary

Client: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET RI
Moisture	Percent Moisture	EPA	EET RI
5030C	Purge and Trap	SW846	EET RI
5035	Closed System Purge and Trap	SW846	EET RI
Frozen Preserve	Freezing Samples	None	EET RI

Protocol References:

EPA = US Environmental Protection Agency

None = None

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: Loureiro Engineering Associates
Project/Site: Zip Zip Mini Mart - Portsmouth, NH

Job ID: 620-18156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-18156-1	4R Day 60, 0.5x	Water	04/15/24 08:50	04/19/24 17:05
620-18156-2	4R Day 60, 1x	Water	04/15/24 09:00	04/19/24 17:05
620-18156-3	4R Day 60, 2x	Water	04/15/24 09:10	04/19/24 17:05
620-18156-4	4R Day 60, 3x	Water	04/15/24 09:20	04/19/24 17:05
620-18156-5	4R Day 60, ctrl	Water	04/15/24 09:30	04/19/24 17:05
620-18156-6	4R Day 60b, 0.5x	Solid	04/15/24 08:54	04/19/24 17:05
620-18156-7	4R Day 60b, 1x	Solid	04/15/24 09:04	04/19/24 17:05
620-18156-8	4R Day 60b, 2x	Solid	04/15/24 09:14	04/19/24 17:05
620-18156-9	4R Day 60b, 3x	Solid	04/15/24 09:24	04/19/24 17:05
620-18156-10	4R Day 60b, ctrl	Solid	04/15/24 09:34	04/19/24 17:05
620-18156-11	4R Day 60, 0.5x	Solid	04/15/24 08:52	04/19/24 17:05
620-18156-12	4R Day 60, 1x	Solid	04/15/24 09:02	04/19/24 17:05
620-18156-13	4R Day 60, 2x	Solid	04/15/24 09:12	04/19/24 17:05
620-18156-14	4R Day 60, 2x	Solid	04/15/24 09:22	04/19/24 17:05
620-18156-15	4R Day 60, ctrl	Solid	04/15/24 09:32	04/19/24 17:05



620-18156 Chain of Custody

ient Testing
land

CHAIN OF CUSTODY RECORD

18156

Special Handling:

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval

Min 24-hr notification needed for rushes

Samples disposed after 30 days unless otherwise instructed

Page 1 of 3

Report To Laurel Crawford (lcrawford@loureiro.com)

Loureiro Engineering Associates, Inc

112 Corporate Drive, Unit 2

Portsmouth, NH 03801

Telephone # 603-778-1100

Project Mgr Laurel Crawford

Invoice To Accounts Payable (accountspayable@loureiro.com)

Loureiro Engineering Associates, Inc

100 Northwest Drive

Plainville, CT 06062

P O No 1260 Quote # _____

Project No 026EE3 01

Site Name Zip Zip Mini Mart Site

Location Portsmouth State NH

Sampler(s) Laurel Crawford

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂O 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SC=Soil Gas

X1= _____ X2= _____ X3= _____

Page 68 of 70

Lab ID:	Sample ID:	Date:	Time:	Type
-1	4R Day 60, 0.5x	4/15/2024	8:50 AM	GW
-2	4R Day 60, 1x	4/15/2024	9:00 AM	GW
-3	4R Day 60, 2x	4/15/2024	9:10 AM	GW
-4	4R Day 60, 3x	4/15/2024	9:20 AM	GW
-5	4R Day 60, ctrl	4/15/2024	9:30 AM	GW
-6	4R Day 60b, 0.5x	4/15/2024	8:54 AM	SO
-7	4R Day 60b, 1x	4/15/2024	9:04 AM	SO
-8	4R Day 60b, 2x	4/15/2024	9:14 AM	SO
-9	4R Day 60b, 3x	4/15/2024	9:24 AM	SO
-10	4R Day 60b ctrl	4/15/2024	9:34 AM	SO

Relinquished by:	Received by:
5/1/2024 (Rev. 1)	

List Preservative Code below:

2

Analysis

Containers

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

8260C VOCs

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ No

CT DPH RCP Report? ☐ Yes ☐ No

☐ Standard ☐ No QC

☐ DQA* ☐ ASP A* ☐ ASP B*

☐ NJ Reduced* ☐ NJ Full*

☐ Tier II* ☐ Tier IV*

☐ Other _____

State-specific reporting standards

Check if chlorinated

☐

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☐

☐ EDD format

☒ E-mail to

lcrawford@loureiro.com, acdumme@loureiro.com

Condition upon receipt: ☐ Present ☐ Intact ☐ Broken

☐ Custody Seals: ☐ Present ☐ Intact ☐ Broken

☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

☐ Iced ☐ Ambient

☐ 413-738-9818

Sample Shipping Address: 126 Myron Street • West Springfield, MA 01089 • 413-738-9818

Lab Address: 646 Camp Ave • North Kingstown, RI 02852

www.EurofinsUS.com/Spectrum

Rev. Jan 2020





Environment Testing
New England

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed

Report To Laurel Crawford (lcrawford@loureiro.com)
Loureiro Engineering Associates, Inc
112 Corporate Drive, Unit 2
Portsmouth, NH 03801
Telephone # 603-778-1100
Project Mgr Laurel Crawford

Invoice To Accounts Payable (accounts payable@loureiro.com)
Loureiro Engineering Associates, Inc
100 Northwest Drive
Plainville, CT 06062
P.O. No. 1260 Quote # _____

Project No 026EE3 01
Site Name Zip Zip Mini Mart Site
Location Portsmouth State NH
Sampler(s) Laurel Crawford

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= terracore kit 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Containers

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Matrix

Type

C=Compsite

G= Grab

Lab ID:	Sample ID:	Date:	Time:
-11	4R Day 30, 0 5x	4/15/2024	8 52 AM
-12	4R Day 30, 1x	4/15/2024	9 02 AM
-13	4R Day 30, 2x	4/15/2024	9 12 AM
-14	4R Day 30, 3x	4/15/2024	9 22 AM
-15	4R Day 30, ctrl	4/15/2024	9 32 AM

List Preservative Code below:

11

Analysis

Check if chlorinated

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No

☐ Standard ☐ No QC

☐ DQA*

☐ ASP A* ☐ ASP B*

☐ NJ Reduced* ☐ NJ Full*

☐ Tier II* ☐ Tier IV*

☐ Other _____

State-specific reporting standards

Relinquished by:

Received by:

Date:

Time:

Temp °C

EDD format

4/19/24 1309

1.0

lrcrawford@loureiro.com, acdunne@loureiro.com

Condition upon receipt:

Custody Seals:

Present

Intact

Broken

Refrigerated

DI VOA Frozen

Soil Jar Frozen

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 620-18156-1

Login Number: 18156

List Number: 1

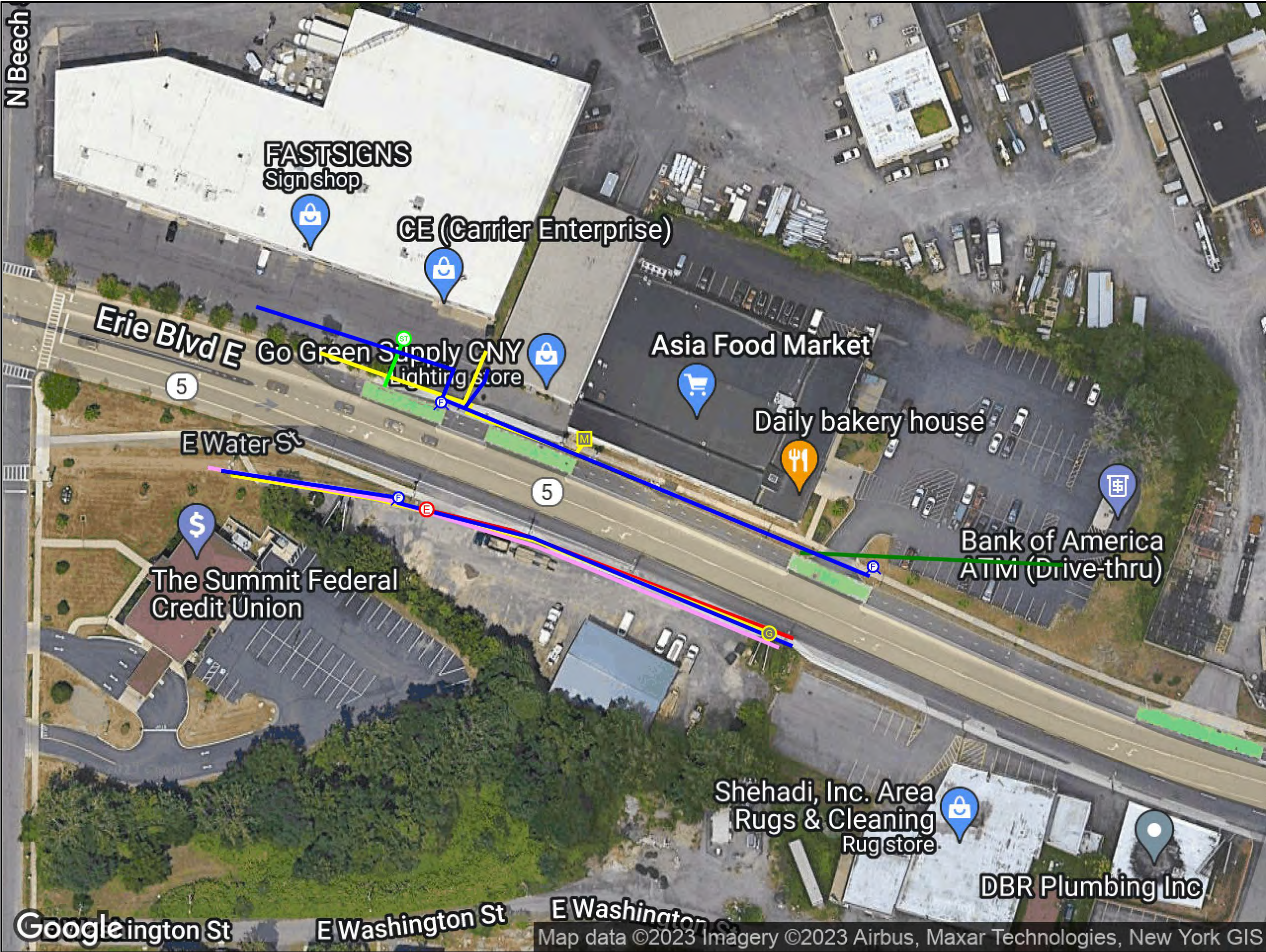
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment C

Ground Penetrating Radar Systems, LLC Summary Report





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6. PRIVATE UTILITY LOCATING IS NEVER A REPLACEMENT FOR ONE CALL/811 SERVICES. STATE LAW REQUIRES 811 TO BE CALLED PRIOR TO ANY AND ALL EXCAVATION ACTIVITIES.

LEGEND

- ELECTRICAL
- FUEL/GAS/OIL
- SANITARY
- STORM
- UNKNOWN
- WATER

0' 25' 50' 75' 100'



Know what's below.
Call before you dig.

GPRS IS NOT AFFILIATED WITH 811 BUT DOES RECOMMEND THAT THE SERVICE IS USED ON EVERY PROJECT IN ADDITION TO OUR OWN. SEE NOTE #6 ABOVE.

FOR INFORMATION ONLY

GPRS FINDINGS MAP

PREPARED FOR:
EA ENGINEERING

LOCATION:
PARKING LOTS
1410 ERIE BOULEVARD EAST
SYRACUSE, NY

PROJECT MANAGER:
NICHOLAS BEADLE
NICHOLAS.BEADLE@GPRSINC.COM

DATE: 2023 AUG 21

DRAWING NO.	1	REV.	0

Attachment D

Injection Log – Field Form



Date: _____

Operator: _____

Injection Area: _____

Injection Point ID:

Gallons of PersulOx Solution :

Gallons of Clean Water Flush : _____

[illegible]