Proactive by Design

SUPPLEMENTAL SITE INVESTIGATION REPORT

92 & 176 SUNNYSIDE AVENUE

Woonsocket, Rhode Island

RIDEM File No. SR-39-0263B

March 2023
File No. 34950.00

PREPARED FOR:
The City of Woonsocket
Woonsocket, Rhode Island

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March 7, 2023
Job No. 34950.00

Ms. Rachel Simpson
Environmental Engineer
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street, 3rd Floor
Providence, Rhode Island 02908

Re: *Supplemental Site Investigation Report*
92 & 176 Sunnyside Avenue (Plat 3 / Lots 7 and 97)
Woonsocket, Rhode Island
RIDEM File No. SR-39-0263B

Dear Ms. Simpson:

On behalf of the City of Woonsocket (City), GZA GeoEnvironmental, Inc. (GZA) is pleased to provide this *Supplemental Site Investigation Report* (SSIR) for the property at 92 & 176 Sunnyside Avenue, Woonsocket, RI (Site). Authorization to proceed on this project was granted in accordance with GZA's signed proposal dated May 24, 2021. This letter describes the supplemental site investigation recommended as part of EA Engineering, Science, and Technology's (EA's) *Site Investigation Report* (SIR), submitted to the Rhode Island Department of Environmental Management (RIDEM) in June 2020. This letter report is subject to the limitations provided in **Appendix A.**

BACKGROUND

The 4.99-acre Site is identified as City of Woonsocket Plat 3 Lots 7 and 97. A Site Locus Plan is provided as **Figure 1**. The Site is the former location of Woonsocket Color & Chemical Co. Lot 7 is currently vacant and three dilapidated buildings are present on Lot 97. We understand that the City of Woonsocket is seeking to redevelop the Site as a solar energy facility.

A number of previous environmental investigations have been conducted at the Site, including EA's June 2020 Site Investigation Report Addendum which identified the following Areas of Concern (AOC-1 through AOC-9) located at 92 Sunnyside Avenue which required additional investigation and are shown on attached **Figure 2**.

GZA evaluated AOC-1 through AOC-9 identified in the SIR Addendum to determine if additional investigation was required. Our evaluation is provided below:

- AOC-1: There was one lead exceedance (2,530 mg/kg) of RIDEM's Industrial/Commercial Direct Exposure Criteria (I/C-DEC) of 500 mg/kg in the 0-2 ft below ground surface (bgs) soil sample interval of EA-MW-9, located east of the former pump shed. Because there were no lead exceedances in the soil samples collected from adjacent explorations, we believe this to be an isolated exceedance. This Site is located in a GB Groundwater Resource area, and as such there <u>are no current standards for leachable lead in soil or for lead in groundwater. No further investigation was required in this area other than further evaluating the area with soil containing total lead at 2,530 ppm for TCLP-lead levels for comparison to the RCRA Hazardous Waste Standards. An additional sample will be collected from 0-2' below ground surface at the EA-MW-9 location during the proposed UST removal work.</u>

OC-2: Petroleum-saturated soils and light non-aqueous phase liquid (LNAPL) in groundwater were encountered in the vicinity of the above-ground storage tank (AST). Exceedances of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) were observed in these soils. Despite LNAPL presence in MW-EA-1, dissolved groundwater constituents did not exceed the GB Groundwater Objectives (GB-GO) in AOC-2. The LNAPL plume appears to originate near EA-7. Oil saturated soils were encountered in borings EA-1, EA-7, EA-8 and EA-10. Staining and TPH exceedances continued to downgradient borings EA-20, EA-19 and EA-18. No TPH exceedances were found in EA-17, though staining was observed. Additional vertical and lateral contaminant delineation was required in this area.

- AOC-3: Typical I/C-DEC and Residential DEC (R-DEC) exceedances observed in urban fill (arsenic, PAHs and TPH) were observed at various depths throughout the Site and are likely widespread. Given that the Site will be capped and developed as a solar energy facility, additional investigation related to urban fill impacts was not required.
- AOC-4: Paint/solvent odors, elevated TVOC readings, and TPH and VOC DEC exceedances were observed in EA-18. Elevated TVOC readings (>500 ppm) extended from 5-14.5 ft bgs, where refusal was encountered. No groundwater samples were collected at this location because groundwater was not encountered prior to refusal; however, no GB-GO groundwater exceedances were observed in downgradient well EA-MW-17. Although this appears to be an isolated area, additional lateral and vertical contaminant delineation was completed in conjunction with the AOC-2 investigation. Please note that the ELUR will likely require a condition requiring any future buildings be built with a sub-slab depressurization system (SSDS).
- AOC-5: Coal ash/slag with PAH and TPH exceedances in surface soils along the eastern property line abutting the railroad are likely widespread along the embankment. Given that the Site will be capped and developed as a solar energy facility, no further investigation was required in this area.
- AOC-6: Three USTs (A1, A2 and A3) and Pump Shed piping under and adjacent to the Pump Shed. Should funding be available upon completion of the subsurface investigation described above and demolition of the onsite structures, these USTs will be removed.
- AOC-7: Gasoline UST (A4) and piping into garage, east of the main building. Should funding be available upon completion of the subsurface investigation described above and demolition of the onsite structures, this UST will be removed.
- AOC-8: Small UST (A5) located in the elbow of main building. Should funding be available upon completion of the subsurface investigation described above and demolition of the onsite structures, this UST will be removed.
- AOC-9: Solid waste throughout the property. Waste includes clothing, mattresses, car parts, metal, concrete, brick, etc. These materials will be addressed (collected and properly disposed off-site) during the site redevelopment.

EA's April 30, 2020 SIR Addendum for 176 Sunnyside Avenue was completed to confirm results from Fuss & O'Neil's previous 2014 SIR. As stated in the 2014 SIR and EA's 2020 Addendum, the investigation of the property is complete and all areas/constituents of concern have been identified; therefore, no further investigation is warranted.

SCOPE OF WORK

The following specific tasks were completed to address the study data needs and objectives for the AOC 's described above.

Soil Borings and Monitoring Well Installations

To address AOC-2, on December 10, 2021, GZA observed the completion of ten additional soil borings by GZA's subcontractor, Hoffman Environmental Services, Inc. Borings were completed at depths ranging from 15 to 30 feet bgs, with five select locations completed as groundwater monitoring wells (GZ-1, GZ-2, GZ-3, GZ-4 and GZ-9). Borings were advanced using a Geoprobe® rig equipped with single use five-foot long Lexan® liners, via direct push techniques. Boring/monitoring well locations are shown on attached **Figure 2**.

Monitoring wells were constructed of 2-inch Schedule 40 PVC and the screened portion of the wells were set such that they span the top of observed groundwater table (present at depths of approximately 14 to 22 feet bgs). A sand filter pack was installed in the

annular space around the screened portion, and a two-foot thick bentonite seal was installed a minimum of 1-foot above the top of screen. Each well was finished with a steel guard pipe cemented flush with grade with an expandable locking plug.

During the boring activities soil samples were collected on a continuous basis, described according to the Burmeister soil classification system, field-screened for TVOCs using a portable organic vapor meter (PID), and observed for visual and olfactory evidence of contamination. Prior to use, the PID meter was calibrated using a standard of known concentration following the manufacturer's guidelines. The meter calibration was checked at the end of each day of sampling. The exploration program was observed by a GZA field engineer/scientist and a boring/well installation log was prepared for each location. Boring logs are attached in **Appendix B**. Drill cuttings deemed not to be suitable for backfill, i.e., cuttings that exhibit gross contamination, were placed in a secure drum and staged for disposal at a properly licensed offsite facility. Depth to groundwater measurements were conducted following well installation to evaluate groundwater flow direction. Groundwater flow direction appears to flow in a northeasterly direction.

A GZA field engineer was present during the exploration activities to coordinate and document the program, classify soils, prepare boring logs and field-screen soil samples. Samples were characterized in the field and boring logs maintained for each borehole. Copies of boring logs are provided in **Appendix B**.

Soil samples were collected continuously by pneumatically advancing a 5-foot, 2-inch ID steel split-spoon equipped with a dedicated acetate lining. Samples were recovered from a depth of 0 to 5, 5 to 10, 10 to 15 and 15 to 20 feet bgs. A new acetate liner was employed for each sample. Soil samples recovered for screening were transferred to clean, unpreserved 8-ounce glass jars using a stainless-steel trowel.

Soil samples recovered during the boring program were observed to generally consist of fine to coarse sand with varying degrees of gravel and silt in all borings. Strong paint/solvents odors were observed in borings GZ-6 and GZ-7. Black staining and apparent petroleum impacts were observed in boring GZ-2, GZ-5, GZ-6, GZ-7, GZ-8. Refer to the boring logs in **Appendix B** for additional subsurface information.

Soil samples recovered during drilling activities were field-screened for total volatile organic compounds (TVOCs) using an Ion Science Tiger Photoionization Detector (PID) equipped with a 10.6 eV lamp and calibrated with a mixture of isobutylene in air. TVOC screening results are provided on the boring logs attached as **Appendix B**. TVOC readings ranged from below the instrument method detection limit to 199 ppm.

Soil samples were collected and placed into laboratory provided bottles, preserved as appropriate, packed in an ice chest and transported under chain-of-custody protocol to Eurofins New England Laboratory in North Kingstown, Rhode Island. A total of eight samples (GZ-1, GZ-2, GZ-3, GZ-4, GZ-6, GZ-7, GZ-8 and GZ-9) and one trip blank were analyzed for one or more of the following parameters:

- VOCs via EPA Method 8260; and
- Total petroleum hydrocarbons (TPH) via EPA Method 8100M.

Soil samples were selected for analysis based on PID field screening, visual/olfactory impacts, anticipated soil removal depths during Site redevelopment and to characterize the nature and extent of onsite contamination. GZ-1 was taken from 15-17 feet bgs, immediately above the observed groundwater table, GZ-2 was taken from 13 feet bgs, were slight staining and elevated PID readings were observed, GZ-6 was collected from 12-14 feet bgs, where elevated PID readings were observed, GZ-7 was taken from 5-10 feet bgs where black staining and elevated PID readings were observed and GZ-8 was collected from 12-14 bgs, where elevated PID readings were observed.

Groundwater Sampling

On January 12, 2022, groundwater samples were collected from the five newly installed wells (MW-1 through MW-4 and MW-9). Groundwater samples were collected in general accordance with EPA's September 19, 2017 *Low Stress (low flow) Purging and Sampling Procedure* (low flow SOP). As part of that sampling methodology, well stabilization was evaluated through the measurement of specific water quality parameters recorded during the purging process. A variable speed peristaltic pump was utilized to control the rate of purging and limit the drawdown caused by this operation. To avoid cross contamination, dedicated 3/8-inch-outer-diameter (OD) polyethylene tubing, installed in each of the existing wells, was utilized as the intake and discharge tubing for the pumps. Pharmaceutical grade tubing was employed as the pump head tubing and connected to the intake and discharge tubing by clamps sufficient to prevent the introduction of air into the sample.

Prior to sampling, each well was gauged for light and dense non-aqueous phase liquids (LNAPL and DNAPL); no LNAPL or DNAPL was observed in any of the five newly installed wells. During the sampling, field readings were recorded for pH, temperature, specific conductance, dissolved oxygen, oxygen reduction potential (ORP) and turbidity using a YSI Dss Pro Series multi-meter with a flow-through cell. Field equipment used to perform the testing was calibrated according to the manufacturer's instructions before sampling. Field readings are presented in the low flow sampling logs, attached as **Appendix C** and are summarized on **Table 1.**

Five groundwater samples were analyzed for the following parameters:

- VOCs via EPA Method 8260.

Groundwater Elevation Monitoring

Depth to static groundwater on a Site-wide basis ranged from approximately 14 to 22 feet bgs, based on readings collected in January 2022. Based on the groundwater elevations, groundwater flow is inferred to flow in a northeasterly direction towards the Blackstone River.

We note that localized groundwater flow patterns may vary significantly from those shown due to heterogeneous subsurface conditions, the presence of underground utilities, and variations in rainfall recharge.

LABORATORY RESULTS

Soil and groundwater sampling results are shown in **Tables 2 and 3**, respectively. Laboratory certificates of analysis are provided in **Appendix D** and the results are summarized below.

Soil Analytical Results

A total of eight soil samples (GZ-1, GZ-2, GZ-3, GZ-4, GZ-6, GZ-7, GZ-8 and GZ-9) and one trip blank were collected and submitted for analytical testing. Analytical results are shown in **Table 2**. Several VOCs were detected in four of the eight soil samples above the method reporting limit (MRL) (GZ-2, GZ-6, GZ-7 and GZ-8). Ethylbenzene in the soil sample form GZ-7 was in excess of the GB Leachability Criteria. GZ-7 was located adjacent to the previous EA-18 boring associated with the AOC-4 paint/solvent "hotspot" area. No VOCs were detected in the soil samples from borings GZ-1, GZ-3, GZ-4 or GZ-9.

TPH was detected in five samples at concentrations above the MRL. TPH was above RIDEM's Upper Concentration Limit (UCL) of 30,000 mg/L in the soil sample from boring GZ-2 at a depth of 13 feet; the Industrial and Commercial Direct Exposure Criteria (I/C-DEC) was exceeded in two of the soil samples (GZ-6 and GZ-7); and above the Residential DEC (RDEC) in one sample (GZ-8). Four of the five TPH concentrations were in excess of the GB Leachability Criteria.

Groundwater Analytical Results

A total of five groundwater samples (GZ-1, GZ-2, GZ-3, GZ-4 and GZ-9) and one blind duplicate (BD011222) were collected and submitted for analytical testing. Analytical results are shown in **Table 3** and groundwater screening parameters are shown on **Table 1**. Groundwater at the Site and the surrounding area are classified as a GB resource.

No VOCs were detected above the MRL in any of the five groundwater sample locations.

UST/AST Evaluation

As stated above, EA's April 30, 2020 SIR Addendum identified AOC-6 (3 USTs under/adjacent to the Pump Shed), AOC-7 (Gasoline UST east of the Main Building) and AOC-8 (1 UST located in the elbow of the Main Building), which required additional investigation. Approximate UST locations are shown on attached **Figure 2**.

AOC-6 consists of three USTs (A1, A2 and A3) and Pump Shed piping under and adjacent to the Pump Shed. A1 [UST1]: approximately 9'x30', extends under the pump shed. A2 [UST2]: approximately 9'x30', extends under the pump shed. A3 [UST3]: approximately 9'x33', adjacent to the pump shed to the northeast. All three USTs were opened and gauged for the presence of petroleum product. All three USTs were observed to be empty other than for residual oily water in the heel of each tank.

AOC-7 consisted of one, approximately 11'x21' Gasoline UST (A4 [UST4]) and associated piping to the garage, east of the main building. The UST was opened and gauged for the presence of petroleum products. The UST was found to be empty except for residual oily water in the heel of the tank.

AOC-8 consisted of one approximately 7'x8' UST (A5 [UST5]) located in elbow of main building. The UST was opened and gauged for the presence of petroleum products. The UST was found to be empty except for residual oily water in the heel of the tank.

No evidence of past leaking was observed from any of the five USTs (A1 through A5) comprising AOC-6, AOC-7 or AOC-8. No evidence of NAPL was observed in any of the immediate downgradient monitoring wells (MW-EA-2, MW-EA-9 or GZ-1).

A sixth UST, (A6 [UST6]), located beneath a large brick debris pile just northwest of the AST, is suspected of being the source of the #6 oil plume extending along the southeastern portion of the Site. The suspected 18'x10' UST could not be accessed. Evidence of petroleum (TPH results in excess of the I/C-DEC and GB Leachability Criteria) were noted in the drilling of the adjacent boring/monitoring well GZ-2, with no evidence of TPH contamination in the upgradient boring/monitoring well GZ-1. LNAPL was not observed during the gauging of GZ-2. Immediately downgradient of UST A6 are monitoring wells MW-EA-1 and MW-EA-20, which both show considerable amounts of LNAPL. The plume appears to extend to the southeast just past boring MW-EA-17. No impacts were noted in borings GZ-3, GZ-4, GZ-9 or GZ-10, all located in a westerly direction from the suspected petroleum contamination plume. Due to the property boundary constraints and the abutting elevated railway, the full lateral extent of the plume in an eastern direction could not determined. We presume the plume extends offsite, beneath the railway, but there is currently no direct evidence of this.

Should funding become available, GZA will prepare a RIDEM UST registration form and closure application on behalf of the City for submittal to RIDEM. We have assumed a qualified person from the City will sign the application, waste profiles and generator forms. Upon application approval, we will coordinate with RIDEM and schedule a date for performing the UST closures of AOC-6, AOC-7, AOC-8 and the presumed leaking A6 [UST6].

The USTs will be permanently closed by excavation and off-Site disposal. GZA will engage a subcontractor to remove any contents from the tanks, clean the interior of the USTs, and transport them off-Site for disposal at an approved recycling facility. UST closure activities will be observed and documented by a GZA field scientist. Waste generated during cleaning activities will

be properly manifested and disposed of in accordance with applicable state and federal regulations. As described above, it is presumed at least one tank (A6 [UST6]) has leaked.

During UST excavation activities, GZA will field-screen soil samples collected from the UST graves for the presence of Total VOCs using a portable photoionization detector (PID) in accordance with the RIDEM UST Closure Assessment Guidelines, revised February 2022. It should be noted that for abandoned USTs, RIDEM typically requires the collection of soil samples from the open excavation for laboratory analysis. We have estimated that up to six soil samples will be collected from each tank location: two bottom samples and one sidewall sample per side will be submitted for total petroleum hydrocarbon (TPH) and VOC analysis. **It should be noted that depending on conditions encountered in the excavation and/or at RIDEM's direction, additional soil removal and sampling/analysis, that is beyond the scope of this task, may be required.**

In accordance with Rule 1.15 of the UST Regulations, GZA will prepare a *Closure Assessment Report* containing observations and conclusions relating to the UST closures. Copies of laboratory analytical reports as well as waste and UST disposal documentation will be appended to our report.

SUMMARY

The findings of this SSIR are summarized below:

- A total of eight soil samples were collected and submitted for analytical testing of VOCs and TPH. The resultant data showed two exceedances of RIDEM's R-DEC, three exceedances of the I/C-DEC, one exceedance of the GB Leachability Criteria and one Upper Concentration Limit (UCL) exceedance for TPH in the soils from GZ-2.
- Petroleum-impacted soils were observed in soil samples from borings GZ-2, GZ-5, GZ-6, GZ-7 and GZ-8.
- AOC-4 appears to be a relatively isolated area consisting of soils in excess of the GB Leachability Criteria surrounding EA-18 and GZ-7. This area is approximately 20'x20'x15' (estimated at 220 cubic yards). The VOC results confirmed AOC-4 appears to be an isolated "hotspot".
- Five newly installed monitoring wells around the suspected limits of the #6 oil plume were sampled and submitted for analytical testing of VOCs. The resultant data was compared to the RIDEM's GB Groundwater Objectives. There were no GB Groundwater Objective exceedances observed.
- LNAPL was not observed in any of newly installed monitoring wells. LNAPL was encountered at various thicknesses in monitoring wells MW-EA-1, MW-EA-10, MW-EA-20. Up to 10 feet of product thickness was observed in MW-EA-1, immediately downgradient of the suspected leaking UST A6 [UST6].
- These study results allowed the western lateral extent of the AOC-5 plume to be delineated as shown on **Figure 2**. However, the eastern extent of petroleum contaminant plume could not be evaluated due to constraints imposed by Site boundaries. It is presumed the #6 oil plume extends offsite, beneath the abutting railroad property.

DEVELOPMENT OF REMEDIAL ALTERNATIVES

In accordance with Rule 1.8.4 of the Remediation Regulations, the following provides an evaluation of three remedial alternatives developed for the Site to address the observed regulatory exceedances.

1. No Action Alternative – Soils at the Site have been shown to contain contaminants at concentrations above the Method 1 R-DEC and I/C-DEC. Consequently, the No Action Alternative does not bring the Site into compliance with regulatory requirements.

2. Institutional Controls – Under this alternative, an Environmental Land Use Restriction (ELUR) as outlined in Section 1.9.9 of the Remediation Regulations could be placed on the property, prohibiting future groundwater use, and limiting land use to industrial/commercial activities. Simply limiting the property use to industrial/commercial development and precluding groundwater use will not address all potential contaminant exposure pathways and does not provide full regulatory compliance. As such, institutional controls alone are not considered a viable remedial alternative.

3. Soil Removal, Installation of Engineered Controls and Institutional Controls (Recommended Alternative) – The Site solar development plans are not yet available, but based on the information we have the following general approach to addressing the impacted areas that currently exceed the I/C-DEC is recommended:

   - VOCs in soils in excess of the GB Leachability Criteria appear localized to the AOC-4 area (borings EA-18 and GZ-7, total area of approximately 400 square feet). Assuming an average impacted soil thickness of 15 feet, based on the above-described borings, an impacted soil volume of approximately 6,000 cubic feet (222 cubic yards) is estimated to be present in the area. As part of this remedy, soils will be excavated and transported off-site to an appropriately licensed/permitted disposal facility.
   - Remaining soils that exceed the I/C-DEC will be capped in place in accordance with RIDEM's capping criteria. The area will be covered with either a 4-ounce high visibility geotextile and capped with a minimum of 1-foot of approved material (8-inches of a sand and gravel borrow overlain with 4-inches of loam) or a 4-ounce high visibility geotextile and capped with a minimum of 6-inches of crushed stone. Either capping option would consist of approved imported materials. The entire area would then be seeded to prevent erosion.
   - The requirements for addressing the residual #6 petroleum LNAPL that remains onsite (e.g., LNAPL monitoring and periodic petroleum recovery) will need to be evaluated in conjunction with RIDEM's Leaking Underground Storage Tank (LUST) program following the UST closures.
   - As part of the institutional controls, an environmental land use restriction (ELUR) will be placed on the site limiting future use to industrial/commercial activities and a soil management plan (SMP) will be developed.

Based our findings, we recommend Alternative No. 3. In proposing this alternative, it is GZA's opinion that this Alternative is consistent with the current and foreseeable reuse of the Site and mitigates current and future risks to human health from identified onsite contamination.

To address Rule 1.8.5 of the Remediation Regulations, the following statements of certification are provided.

GZA GeoEnvironmental, Inc. certifies to the best of its knowledge, that this Supplemental Site Investigation Report is complete and accurate.

Edward A. Summerly, P.G.[NY, KY]
Sr. Principal / District Office Manager
GZA GeoEnvironmental, Inc.

As a designee of the City of Woonsocket, I certify, to the best of my knowledge, that this Supplemental Site Investigation Report is a complete and accurate representation of the Site and the release, and contains all known facts surrounding the release.

3/3/23

Michael Debroisse, On Behalf of: DIRECTOR
City of Woonsocket

We trust this report addresses the applicable regulatory requirements, and we look forward to the Department's issuance of a Program Letter. If you require any additional information or have comments on the content of the report, please feel free to contact either Erik or Ed at (401) 427-2723 or (401) 427-2707, or via email at erik.beloff@gza.com or edward.summerly@gza.com.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Erik M. Beloff
Project Manager

Richard A. Carlone, P.E.
Consultant Reviewer

Edward A. Summerly, P.G.[NY, KY]
Sr. Principal / District Office Manager

Attachments: Tables 1 through 3
Figure 1 & 2
Appendix A – Limitations
Appendix B – Exploration Logs
Appendix C – Low Flow Logs
Appendix D – Analytical Reports

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TABLES

TABLE 1
SUMMARY OF GROUNDWATER SAMPLING PARAMETERS
92 Sunnyside Avenue
Woonsocket, Rhode Island
January 2022

PARAMETERS	UNITS	GZ-1 (MW-1)	GZ-2 (MW-2)	GZ-3 (MW-3)	GZ-4 (MW-4)	GZ-9 (MW-9)
		01/12/2022	01/12/2022	01/12/2022	01/12/2022	01/12/2022
		Result	Result	Result	Result	Result
pH	SU	5.9	5.7	5.9	6.0	6.0
Temperature	(oC)	10.5	11.2	9.8	11.0	9.5
Specific Conductivity	µS/cm	0.712	0.559	0.385	0.423	0.22
Dissolved Oxygen	mg/L	1.92	2.50	6.30	3.30	1.65
Oxidation Reduction Potential	mV	165	166.0	153.0	120.0	98.0
Turbidity	NTU	5.0	4.0	9.2	5.0	8.0
Depth to water	feet	20.0	22.0	14.0	14.0	14.0

Notes

1. The above readings, with the exception of depth to water, were collected using a YSI Pro Dss Series multi-meter with a flow-through cell and represent readings collected immediately prior to well sampling, i.e. were collected when well purging was complete. Depth to water readings shown are initial readings, i.e. were collected before well purging began.

TABLE 2
SUMMARY OF SOIL SAMPLING RESULTS
92 Sunnyside Avenue
Woonsocket,, Rhode Island
January 2022

PARAMETERS	UNITS	RIDEM DIRECT EXPOSURE CRITERIA	RIDEM DIRECT EXPOSURE CRITERIA	RIDEM GB	GZ-1	GZ-2	GZ-3	GZ-4	GZ-6	GZ-7	GZ-8	GZ-9
		Residential	Industrial/ Commercial	Leachibility Criteria	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021	12/10/2021
					15-17 feet	13 feet	13-15 feet	12-14 feet	12-14 feet	5-10 feet	12-14 feet	7-8 feet
Volatile Organic Compounds												
Acetone	mg/kg	7,800	10,000		BRL	**0.234**	BRL	BRL	**0.220**	**0.118**	**0.048**	BRL
2-Butanone (MEK)	mg/kg				BRL	**0.025**	BRL	BRL	**0.024**	BRL	**0.008**	BRL
n-Butylbenzene	mg/kg				BRL	**1.700**	BRL	BRL	**0.880**	BRL	BRL	BRL
sec-Butylbenzene	mg/kg				BRL	**2.000**	BRL	BRL	**0.580**	**5.800**	**0.240**	BRL
tert-Butylbenzene	mg/kg				BRL	BRL	BRL	BRL	**0.012**	**0.022**	**0.004**	BRL
Carbon disulfide	mg/kg				BRL	BRL	BRL	BRL	BRL	**0.008**	BRL	BRL
Chlorobenzene	mg/kg	210	10,000	100	BRL	BRL	BRL	BRL	**0.056**	**0.170**	BRL	BRL
1,2-Dichlorobenzene	mg/kg				BRL	**2.700**	BRL	BRL	**1.700**	**0.010**	**0.171**	BRL
1,4-Dichlorobenzene	mg/kg				BRL	**1.000**	BRL	BRL	**0.045**	BRL	**0.006**	BRL
Ethylbenzene	mg/kg	71	10,000	**62**	BRL	**0.940**	BRL	BRL	**13.000**	**190.000**	**0.171**	BRL
Isopropylbenzene	mg/kg	27	10,000		BRL	**1.500**	BRL	BRL	**1.200**	**14.000**	**0.045**	BRL
2-Isopropyltoluene	mg/kg				BRL	**0.760**	BRL	BRL	BRL	BRL	BRL	BRL
4-Isopropyltoluene	mg/kg				BRL	**0.010**	BRL	BRL	**0.197**	**0.248**	**0.081**	BRL
4-Methyl-2-pentanone (MIBK)	mg/kg				BRL	BRL	BRL	BRL	**0.063**	**0.057**	**0.010**	BRL
Naphthalene	mg/kg				BRL	**4.500**	BRL	BRL	**1.300**	**11.000**	**0.310**	BRL
N-Propylbenzene	mg/kg				BRL	**2.100**	BRL	BRL	**1.300**	**11.000**	**0.051**	BRL
Toluene	mg/kg	190	10,000		BRL	BRL	BRL	BRL	**0.028**	**0.137**	BRL	BRL
1,2,3-Trichlorobenzene	mg/kg				BRL	**0.009**	BRL	BRL	**0.014**	BRL	BRL	BRL
1,2,4-Trichlorobenzene	mg/kg				BRL	BRL	BRL	BRL	**1.000**	BRL	**0.230**	BRL
1,2,4-Trimethylbenzene	mg/kg				BRL	**13.000**	BRL	BRL	**9.500**	**89.000**	**0.710**	BRL
1,3,5-Trimethylbenzene	mg/kg				BRL	**6.400**	BRL	BRL	**4.300**	**42.000**	**0.111**	BRL
m,p-Xylene	mg/kg				BRL	**2.000**	BRL	BRL	**42.000**	**530.000**	**0.480**	BRL
o-Xylene	mg/kg				BRL	**3.600**	BRL	BRL	**14.000**	**210.000**	**0.420**	BRL
Total Xylenes	mg/kg	110	10,000		BRL	**5.600**	BRL	BRL	**56.000**	**740.000**	**0.420**	BRL
p-isopropyltoluene	mg/kg				BRL	**2.500**	BRL	BRL	**1.400**	**12.000**	**0.260**	BRL
Remaining VOCs	mg/kg				ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons												
TPH	mg/kg	**500**	**2,500**	**500**	BRL	**54000**	BRL	BRL	**2,640**	**9630**	**827**	**33**

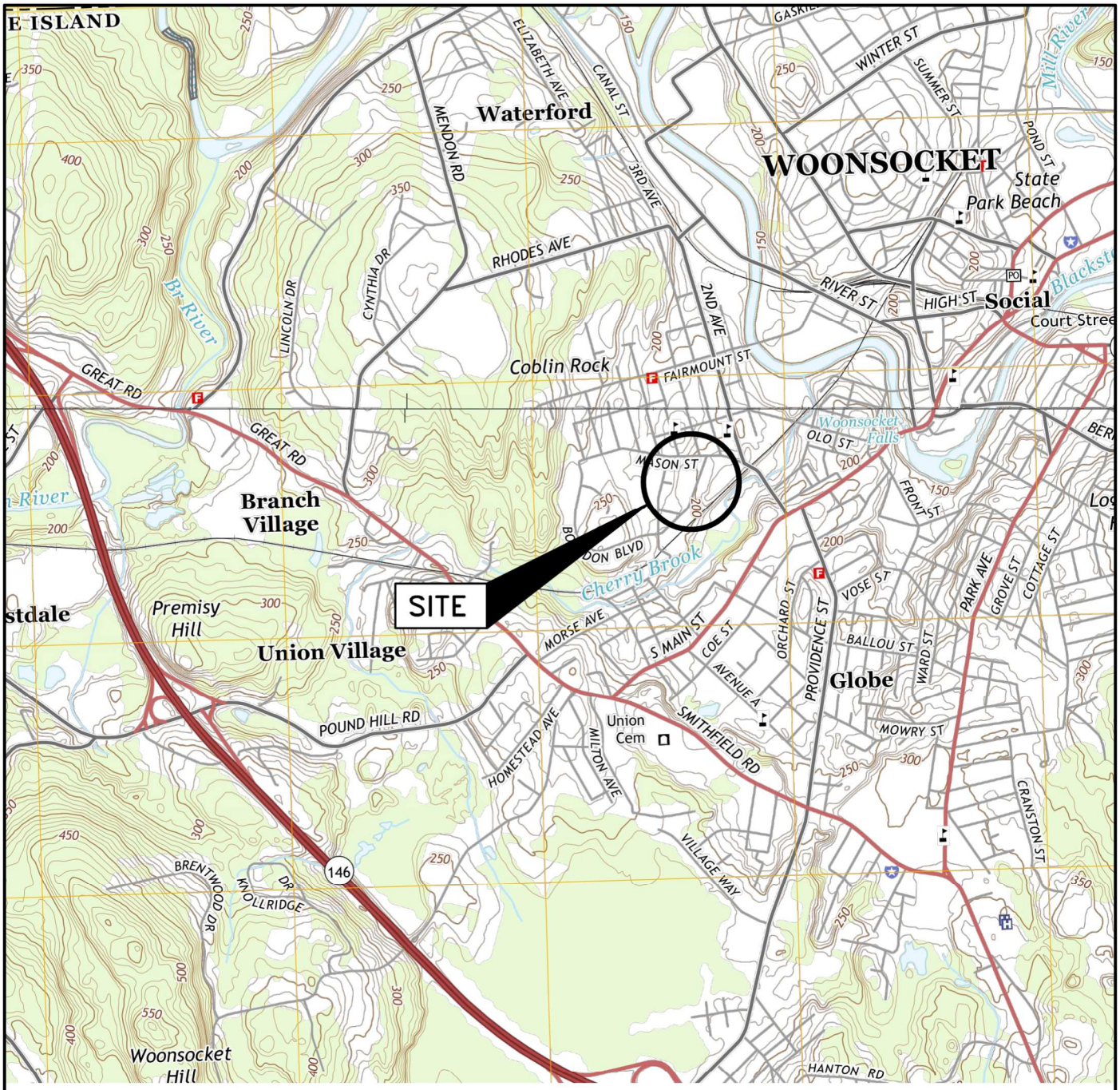
Notes:
1: For the complete list of target analytes refer to the attached laboratory certificates of analysis.
2. Bold values indicate the constituent was detected above the laboratory reporting limit. Orange highlight indicates an exceedence of RIDEM's GB Leachability Criteria. Yellow highlight indicates an exceedance of RIDEM's I/C-DEC Criteria. Green highlight indicates an exceedance of RIDEM's R-DEC Criteria.
3. "BRL" indicates that the parameter is Below Reporting Limit for the analytical method.
4. "U" indicates that the parameter is not detected.
5. "NE" indicates that a standard for the parameter is not established.
6. "ND" indicates that the paramater is not detected.
7. "NT" indicates that the paramater was not tested for.
8. "J" indicates that the parameter was reported between MDL and MRL.
9. "B" indicates that the parameter was present in Method Blank.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
92 Sunnyside Avenue
Woonsocket, Rhode Island
January 2022

PARAMETERS	UNITS	RIDEM GA GROUNDWATER QUALITY STANDARD	RIDEM GB GROUNDWATER QUALITY STANDARD	GZ-1 (MW-1) 1/12/2022	GZ-2 (MW-2) 1/12/2022	GZ-3 (MW-3) 1/12/2022	GZ-4 (MW-4) 1/12/2022	GZ-9 (MW-9) 1/12/2022	BD011222 1/12/2022
Volatile Organic Compounds									
All VOCs	mg/L			ND	ND	ND	ND	ND	ND

Notes:
1: For the complete list of target analytes refer to the attached laboratory certificates of analysis.
2. Bold values indicate the constituent was detected above the laboratory reporting limit. Yellow highlight indicates an exceedance of RIDEM's GA Groundwater Quality Criteria. Orange highlight indicates an exceedance of RIDEM's GB Groundwater Quality Criteria.
3. "U" indicates that the parameter is not detected.
4. "NE" indicates that a standard for the parameter is not established.
5. "ND" indicates that the parameter is not detected.
6. "NT" indicates that the parameters was not tested.

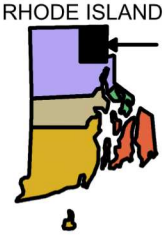
FIGURES



0 1000' 2000' 4000'

SCALE IN FEET 1" = 2000'

RHODE ISLAND



QUADRANGLE LOCATION

SOURCE:

BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:
RHODE ISLAND (2015)

DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGSSTORE.GOV.

CONTOUR ELEVATIONS REFERENCE NAVD 88,
CONTOURS ARE SHOWN IN FEET AT 10' INTERVALS

N
W E
S

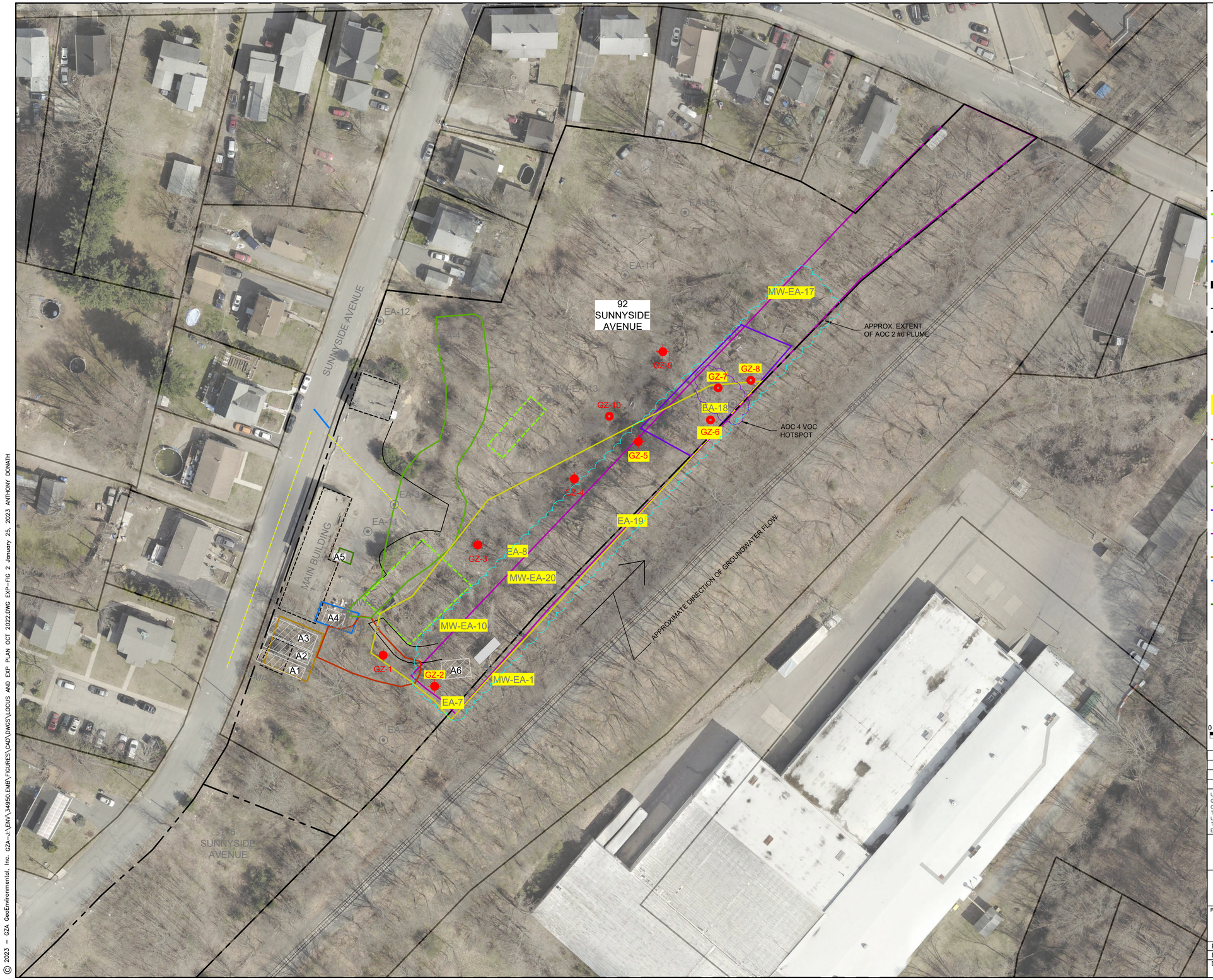
SITE INVESTIGATION WORK
92 AND 176 SUNNYSIDE AVENUE
WOONSOCKET, RI 02985

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF WOONSOCKET
WOONSOCKET, RI 02886

LOCUS

PROJ MGR: EMB	REVIEWED BY: RAC	CHECKED BY: EAS	FIGURE
DESIGNED BY:	DRAWN BY: ADD	SCALE: 1" = 2000'	1
DATE: OCTOBER, 2021	PROJECT NO. 34950.00	REVISION NO. 0	SHEET NO. 1 OF 2



GENERAL NOTES

1. BASE MAP DEVELOPED FROM RIGIS AERIAL IMAGERY TAKEN IN SPRING 2020.

LEGEND

- PREVIOUS MONITORING WELL
- PREVIOUS SOIL BORING
- UST - A1 THROUGH A6
- AST
- BUILDINGS
- FOUNDATION REMNANTS
- NATIONAL GRID UTILITY
- WATER
- RAILROAD
- PATH AND ASPHALT
- PROPERTY LINE
- INSTALLED MONITORING WELL
- INSTALLED SOIL BORING
- WELL/ BORING WHERE PETROLEUM IMPACTS WERE OBSERVED
- AOC 1
- AOC 2
- AOC 3
- AOC 4
- AOC 5
- AOC 6
- AOC 7
- AOC 8
- AOC 4 VOC HOTSPOT
- APPROX. EXTENT OF AOC 2 #6 PLUME

N
W E
S

0 20' 40' 80' 120'
SCALE IN FEET 1" = 40'

NO.	ISSUE/DESCRIPTION	BY	DATE

SUPPLEMENTAL SITE INVESTIGATION
92 AND 176 SUNNYSIDE AVENUE
WOONSOCKET, RI 02895

EXPLORATION PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF WOONSOCKET WOONSOCKET, RI 02886	
PROJ MGR: EMB	REVIEWED BY: RAC	CHECKED BY: EAS	SHEET 2
DESIGNED BY:	DRAWN BY: ADD	SCALE: 1" = 40'	
DATE: JANUARY, 2023	PROJECT NO. 34950.00	REVISION NO. 0	SHEET NO. 2 OF 2

APPENDIX A

LIMITATIONS

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

APPENDIX B

EXPLORATION LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-01
SHEET: 1 of 2
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.: Hoffman Environmental
Foreman: Kyle Hoffman

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 36
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)	Equipment Installed
		S-1	0.0	60"	37"			S-1: 4": Topsoil/Roots, trace Red Brick 26": Brown/Gray, fine to coarse SAND, little fine to medium Gravel, trace Silt 7": Black, fine to coarse SAND, little Coal Tar/Ash, trace Silt		0.0		FILL		
5		S-2	5.0	60"	37"			S-2: Tan, fine to coarse SAND, little fine Gravel, trace Silt	1	0.0	5.5			
10		S-3	10.0	60"	24"			S-3: Tan, fine to coarse SAND, little fine Gravel, trace Silt		0.0				
15		S-4	15.0	60"	24"			S-4: Tan, fine to coarse SAND little fine Gravel, trace Silt	2	0.0		SAND		
20		S-5	20.0	60"	36"			S-5: Tan, fine to medium SAND, trace Silt	3	0.0				
25														
30														

REMARKS

1 - Water encountered at approximately 20 bgs.
2 - Well set to 26" bgs.
3 - S-4 sampled at approximately 15:10.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-01

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:46 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-01
SHEET: 2 of 2
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.: Hoffman Environmental
Foreman: Kyle Hoffman

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 36
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)	Equipment Installed
35												SAND		
											36			
								End of exploration at 36 feet.						
40														
45														
50														
55														
60														

REMARKS

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-01

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:46 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-02
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 29
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Description Depth (ft.)	Stratum Description Elev. (ft.)	Equipment Installed
		S-1	0.0	60"	24"			S-1: 24": Topsoil		0.1			No Equipment Installed
								15": Brown, fine to coarse SAND and SILT trace		0.2			
								5": Tan, fine to medium SAND, trace Silt		0.0			
									1	0.0			
5		S-2	5.0	60"	28"			S-2: Tan, fine to medium SAND, trace Silt		0.1			
10		S-3	10.0	60"	38"			S-3: 30": Tan, fine to medium SAND, trace Silt					
								8": Black, fine to medium SAND, trace Silt, petroleum impacts	2	39.2			
15		S-4	15.0	60"	29"			S-4: 8": Tan/dark brown, fine to medium SAND, trace Silt,					
								11": Tan, fine to medium SAND, trace Silt	3	0.6			
										0.2			
20													
25													
30								End of exploration at 29 feet.					

REMARKS

1 - Monitoring well set to 25' bgs 5' screened interval.
2 - Groundwater encountered at approximately 20' bgs.
3 - S-3B Sampled at approximately 13:45.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-02

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-03
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.: Hoffman
Foreman: Kyle Hoffman

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 20
Date Start - Finish: 12/18/2022 - 12/18/2022

H. Datum:
V. Datum:

Hammer Type: Automatic Hammer
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

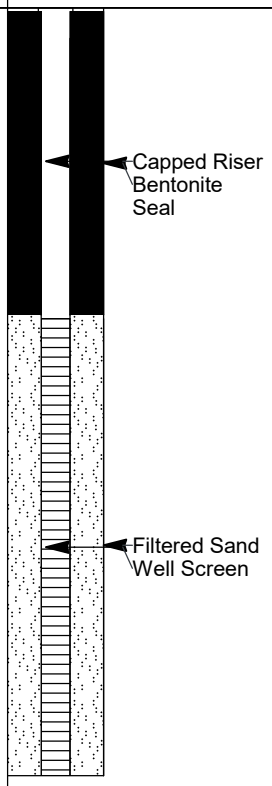
Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0		S-1	0.0	60"	32"			S-1: 10" Black, fine to medium SAND and ASH/SLUG, changing to brown fine to medium Sand, little Gravel, trace Silt					
5		S-2	5.0	60"	32"			S-2: Brown, fine to medium SAND, little Gravel, trace Silt, 3" dark brown fine to medium Sand and Silt, changing to tan from Sand, trace Silt					
10		S-3	10.0	60"	22"			S-3: Tan, fine to coarse SAND trace Silt					
15		S-4	15.0	60"	36"			▼ S-4: Tan, fine to medium SAND, trace Silt, no odors, no staining	1				
20								End of exploration at 20 feet.	2				
25													
30													

Equipment Installed



REMARKS

1 - Water ▼ +/- 15' bgs.
2 - Monitoring well set at approximately 20' bgs. 20' bgs. 10' of 2" screen, filtered sand 20'-8', bentonite 8'-0'.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-03

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:47 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-04
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 20
Date Start - Finish: 12/13/2021 - 12/13/2021

H. Datum:
V. Datum:

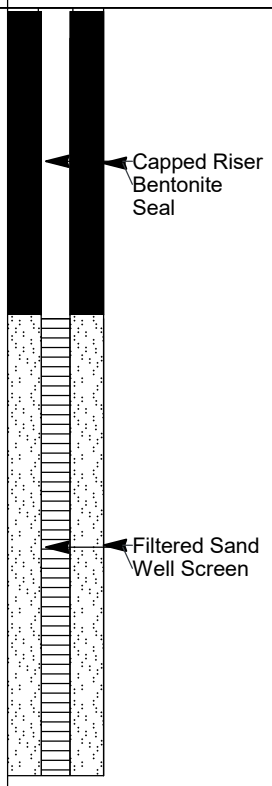
Hammer Type: Automatic Hammer
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
0		S-1	0.0	60"	33"			S-1: 30" of black/dark brown, fine to medium SAND and ASH/SLAG, changing to orangish/brown, fine to coarse Sand and Gravel					
5		S-2	5.0	60"	30"			S-2: Dark brown, fine to coarse SAND and GRAVEL, ASH/SLAG, trace Silt, changing to dark brown, fine to medium Sand and Silt, last 3" tan, fine to medium Sand, trace Silt					
10		S-3	10.0	60"	41"			S-3: Tan, fine to medium SAND, trace Silt					
15		S-4	15.0	60"	38"			▼ S-4: Tan, fine to medium SAND, trace Silt	1				
20									2				
								End of exploration at 20 feet.	3				
25													
30													



Equipment Installed

REMARKS

1 - No odors, no staining.
2 - Water ▼ +/- 14.5'.
3 - Monitoring well set at approximately 20' bgs. 10' of 2" screen, filter sand 20-8', bentonite 8-0'.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-04

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:48 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-05
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 25
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Description Depth (ft.)	Stratum Description Elev. (ft.)	Equipment Installed
		S-1	0.0	60"	32"			S-1: 15": Topsoil 17": Black/dark brown, fine to medium SAND, trace Silt		0.4 2.0 4.5			No Equipment Installed
5		S-2	5.0	60"	42"			S-2: 12": Black, fine to coarse SAND, trace Silt 20": Black, fine to medium SAND, trace Silt, petroleum impacts 10": White/gray, fine to coarse SAND, trace Gravel, trace Cobbles	1	53.4 1.2			
10		S-3	10.0	60"	36"			S-3: 20": Black/Tan fine to coarse SAND, little fine Gravel, trace concrete, trace Silt 16": Brown, fine to coarse SAND, little Silt					
15		S-4	15.0	60"	58"			S-4: 16": Dark gray, fine to coarse SAND, trace Silt 20": Brown fine SAND and SILT 10": Fine to coarse SAND, little Silt, trace roots 12" : Gray, fine to coarse SAND, trace Silt		0.8			
20										0.7 0.8			
25								End of exploration at 25 feet.		0.8			
30													

REMARKS

1 - S-2C sampled at approximately 11:45 Hold 3

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-05

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:49 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-06
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 15
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)	Equipment Installed
		S-1	0.0	60"	22"			S-1: 10": Black, fine to medium SAND, Topsoil (Fill) 12": Black SAND and white paste		7.9				No Equipment Installed
5		S-2	5.0	60"	45"			S-2: 25": Black/dark gray, fine t omedium SAND, trace Silt 20": White/gray, fine to medium SAND, trace Silt	1 2	105.1				
10		S-3	10.0	60"	53"			S-3: 22": Brown/wet. fine SAN D,trace Silt, trace paste 18": White, moist fine to coarse SAND, Cobbles surfaced 15": Black fine SAND, petroleum impacts	3	176.1 105.1 185.1				
15								End of exploration at 15 feet.		154.3				
20														
25														
30														

REMARKS

1 - White paste odor at solvents (plants).
2 - S-2 strong odor utilized full due to fumes from borehole.
3 - S-3B sampled at approximately 10:55.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-06

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:49 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-07
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 18
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)	Equipment Installed
		S-1	0.0	60"	42"			S-1: 6": Brown/black, fine to medium SAND and SILT (Topsoil) 34": Black/brown/red, fine SAND, trace Silt		0.0 0.4				No Equipment Installed
5		S-2	5.0	60"	40"			S-2: 2": Black Ash/Tar (Plastic)40": Black, fine to medium SAND, petroleum impacts	1	0.0 194				
10		S-3	10.0	60"	45"			S-3: 18": Black, fine to medium SAND, trace coarse SAND, trace gray, fine to medium SAND		32.2 11.4				
15														
20								End of exploration at 18 feet.						
25														
30														

REMARKS

1 - S-2A sampled at approximately 09:45 for VOC and TPH.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-07

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:50 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-08
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 28
Date Start - Finish: 12/10/2021 - 12/10/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Sleeve
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)	Equipment Installed
0		S-1	0.0	60"	12"			S-1: 12": Topsoil/trace Roots						No Equipment Installed
5		S-2	5.0	60"	40"			S-2: 3": Black fine SAND, coal, tar 37": Light brown, fine to coarse SAND, trace fine Gravel, trace Silt		0.0				
10		S-3	10.0	60"	38"			S-3: 28": Light loose, brown fine to coarse SAND, trace fine Gravel, trace Silt, petroleum stainingg 10": Gray, fine to coarse SAND, little fine Gravel, trace Silt	1	7.5 197				
15														
20														
25														
30								End of exploration at 28 feet.						

REMARKS

1 - S-3B sampled at approximately 10:15.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-08

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:50 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-09
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 20
Date Start - Finish: 12/13/2021 - 12/13/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Hammer
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

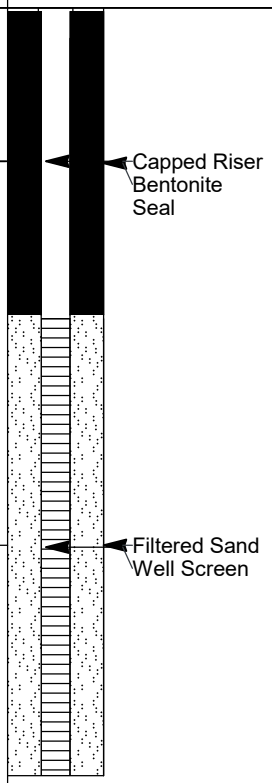
Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (RQD)	Sample SPT Value	Sample Description Modified Burmister	Remark	Field Test Data
0		S-1	0.0	60"	42"			S-1: 4" Black, fine to medium SAND and ASH/SLAG, changing to tan, fine to medium Sand, little Gravel, trace Silt		
5		S-2	5.0	60"	48"			S-2: Tan, fine to coarse SAND and GRAVEL, trace Silt, changing to 8" seam of fine to medium Sand and Ash, changing back to tan, fine to coarse Sand and Gravel, trace Silt		
10		S-3	10.0	60"	34"			S-3: Brown, fine to coarse SAND, trace (-) Silt, 2" seam of Organics, dark brown at end of spoon.		
15		S-4	15.0	60"				▼ S-4: Tan to gray, fine to medium SAND, changing to Black Organics, +/- 12" of gray fine Sand and Silt.	1	
20		S-4	21.0	60"				S-4: Tan to gray, fine to medium SAND, changing to Black Organics, +/- 12" of gray fine Sand and Silt. End of exploration at 20 feet.	2	
25										
30										

Stratum Description

Depth (ft.)	Elev. (ft.)	Description
0		FILL
4		NATIVE
14		

Equipment Installed



REMARKS

1 - Water ▼ +/- 13.5 bgs.
2 - Monitoring well installed at approximately 2-' bgs. 10' of 2". screen filter sand 20'-8', bentonite 8'-0'.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-09

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:51 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

City of Woonsocket
92-176 Sunnyside Avenue
Woonsocket, RI

EXPLORATION NO.: GZ-10
SHEET: 1 of 1
PROJECT NO: 34950.00
REVIEWED BY: Erik Beloff

Logged By: Erik Beloff
Drilling Co.:
Foreman:

Type of Rig: GP
Rig Model: 788DT
Drilling Method: DP

Boring Location: See Plan
Ground Surface Elev. (ft.):
Final Boring Depth (ft.): 20
Date Start - Finish: 12/13/2021 - 12/13/2021

H. Datum:
V. Datum:

Hammer Type: Automatic Hammer
Hammer Weight (lb.):
Hammer Fall (in.):
Auger or Casing O.D./I.D Dia (in.):

Sampler Type: SS
Sampler O.D. (in.):
Sampler Length (in.):
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
Not Measured				

Depth (ft)	Casing Blows/ (Core Rate)	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Blows (RQD)	SPT Value	Sample Description Modified Burmister	Remark	Field Test Data
0		S-1	0.0	60'	44'			S-1: 12" Dark brown TOPSOIL, trace Ash/Slag, changing to brown, fine to medium Sand, little Gravel, trace Silt		
5		S-2	5.0	60'	36'			S-2: Brown, fine to medium SAND, little Gravel, trace Silt, changing to tan, fine to coarse Sand, little Silt		
10		S-3	10.0	60'	40'			S-3: Tan, fine to coarse SAND, little Gravel, trace Silt		
15		S-4	15.0	60'	45'			▼ S-4: Tan, fine to coarse SAND, trace Silt, no odors, no staining	1 2	
20								End of exploration at 20 feet.		
25										
30										

Stratum Description	Depth (ft.)	Elev. (ft.)
FILL	3	
SAND	8	

Equipment Installed: Capped Riser; Bentonite Seal; Filtered Sand; Well Screen

REMARKS

1 - Water ▼ +/- 14' bgs/
2 - Monitoring well installed at approximately 20' bgs. 10' of 2" screen, filter sand 20' - 8', bentonite 8' - 0'.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: GZ-10

GZA TEMPLATE TEST BORING W/ EQUIP.; 1/18/2023; 10:59:51 AM

APPENDIX C

LOW FLOW LOGS

GROUNDWATER SAMPLING DATA SHEET

File No. 34950.00
Project: Sunnyside Ave
Location: Woonsocket State: RI
Weather: Clear, 40s

Well ID: MW-9
Sample Date: 1/12/2022
Sampler's Name: BNR

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 1/12/22, 10:15

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]
Total Well Depth (feet): 22.85
Depth to LNAPL (feet): NP
Depth to Water (feet): 14
Depth to DNAPL (feet): NP
Well Screened Interval (feet BGS): to

Standing Water in Well (feet): 8.85
Well Diameter (in.) 2
Sample Depth (feet BGS): 19
Standpipe: TPVC to Ground Surface (feet) NM
Roadbox: TPVC to Ground Surface (feet) NM

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [ ] Pump / [X] Low Flow

Pump Type: Geotech No. Rental
Meter Type: YSI No. Rental
Flow-Thru Cell Vol (mL): 500

INSTRUMENT MEASUREMENTS:

Start time: 10:30 **Stop time:** 11:17

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (mS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
10:40	14.00	76.2	6.06	260.1	1.58	9.2	51.55	<500	--
11:11	14.00	95.5	6.03	220.6	1.7	9.5	8.85	<500	--
11:14	14.00	96.3	6.03	220	1.69	9.5	8.19	<500	--
11:17	14.00	97.5	6.03	220.4	1.65	9.5	8.08	<500	--

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 11:17

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	Vial	VOA	HCl	ICE

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 1 Gal
Tubing Volume: 0.057125

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

NM - Not Measured NP - No Product observed BGS - below ground surface FT - feet in - inches mL - milliliters GAL - gallons mvolts - millivolts s.u. - standard units
mS/cm - microsiemens per centimeter mg/L - milligrams per liter ºC - degrees Celcius ntu - Nephelometric Turbidity Unit mL/min - milliliters per minute

GROUNDWATER SAMPLING DATA SHEET

File No. 34950.00
Project: Sunnyside Ave
Location: Woonsocket State: RI
Weather: Clear, 40s

Well ID: MW-9
Sample Date: 1/12/2022
Sampler's Name: BNR

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 1/12/22, 10:37

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	22.9	Standing Water in Well (feet):	8.9
Depth to LNAPL (feet):	NP	Well Diameter (in.)	2
Depth to Water (feet):	14	Sample Depth (feet BGS):	18
Depth to DNAPL (feet):	NP	Standpipe: TPVC to Ground Surface (feet)	NM
Well Screened Interval (feet BGS):	to	Roadbox: TPVC to Ground Surface (feet)	NM

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [ ] Pump / [X] Low Flow

Pump Type: Geotech No. Rental
Flow-Thru Cell Vol (mL): 500

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 10:46 **Stop time:** 11:49

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (mS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
11:23	14.00	68.8	6.06	446.5	2.92	10.9	10.48	<500	--
11:43	14.00	117.2	6.01	429.7	3.19	10.9	5.3	<500	--
11:46	14.00	119.5	6.01	425.3	3.31	11.1	5.21	<500	--
11:49	14.00	119.7	6.01	424.7	3.28	11	5.25	<500	--

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 11:49

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	Vial	VOA	HCl	ICE

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 2 **Gal**
Tubing Volume: 0.05725

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

NM - Not Measured NP - No Product observed BGS - below ground surface FT - feet in - inches mL - milliliters GAL - gallons mvolts - millivolts s.u. - standard units
mS/cm - microsiemens per centimeter mg/L - milligrams per liter ºC - degrees Celcius ntu - Nephelometric Turbidity Unit mL/min - milliliters per minute

Odors of diesel exhaust from idling motor home located to the west

GROUNDWATER SAMPLING DATA SHEET

File No. 34950.00
Project: Sunnyside Ave
Location: Woonsocket State: RI
Weather: Clear, 40s

Well ID: MW-9
Sample Date: 1/12/2022
Sampler's Name: BNR

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 1/12/22, 10:50

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	23.54	Standing Water in Well (feet):	9.54
Depth to LNAPL (feet):	NP	Well Diameter (in.)	2
Depth to Water (feet):	14	Sample Depth (feet BGS):	19
Depth to DNAPL (feet):	NP	Standpipe: TPVC to Ground Surface (feet)	NM
Well Screened Interval (feet BGS):	to	Roadbox: TPVC to Ground Surface (feet)	NM

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [ ] Pump / [X] Low Flow

Pump Type: Geotech No. Rental
Flow-Thru Cell Vol (mL): 500
Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 11:25 **Stop time:** 12:35

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (mS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
11:54	14.00	135.5	5.85	442.3	6.67	9.8	53.49	<500	--
12:29	14.00	150	5.87	386.6	6.29	9.9	9.54	<500	--
12:32	14.00	151.6	5.86	385.5	6.26	9.8	9.44	<500	--
12:35	14.00	152.7	5.85	385	6.27	9.8	9.22	<500	--

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 12:35

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	Vial	VOA	HCl	ICE

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 1 Gal **Tubing Volume:** 0.05885

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

NM - Not Measured NP - No Product observed BGS - below ground surface FT - feet in - inches mL - milliliters GAL - gallons mvolts - millivolts s.u. - standard units
mS/cm - microsiemens per centimeter mg/L - milligrams per liter ºC - degrees Celcius ntu - Nephelometric Turbidity Unit mL/min - milliliters per minute

BD20220112 Taken Here

Odors of diesel exhaust from idling motor home located to the west

GROUNDWATER SAMPLING DATA SHEET

File No. 34950.00
Project: Sunnyside Ave
Location: Woonsocket State: RI
Weather: Clear, 40s

Well ID: MW-9
Sample Date: 1/12/2022
Sampler's Name: BNR

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 1/12/22, 11:04

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	28.55	Standing Water in Well (feet):	6.55
Depth to LNAPL (feet):	NP	Well Diameter (in.)	2
Depth to Water (feet):	22	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	NP	Standpipe: TPVC to Ground Surface (feet)	NM
Well Screened Interval (feet BGS):	15 to 25	Roadbox: TPVC to Ground Surface (feet)	NM

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [ ] Pump / [X] Low Flow

Pump Type: Geotech No. Rental
Flow-Thru Cell Vol (mL): 500

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 12:03 **Stop time:** 12:57

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (mS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
12:51	22.00	165.4	5.69	560	2.5	11.1	4.34	<500	--
12:54	22.00	165.5	5.69	559	2.5	11.2	3.7	<500	--
12:57	22.00	165.7	5.69	559	2.5	11.2	3.56	<500	--

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 12:57

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	Vial	VOA	HCl	ICE

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 1 Gal **Tubing Volume:** 0.071375

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

NM - Not Measured NP - No Product observed BGS - below ground surface FT - feet in - inches mL - milliliters GAL - gallons mvolts - millivolts s.u. - standard units
mS/cm - microsiemens per centimeter mg/L - milligrams per liter ºC - degrees Celcius ntu - Nephelometric Turbidity Unit mL/min - milliliters per minute

GROUNDWATER SAMPLING DATA SHEET

File No. 34950.00
Project: Sunnyside Ave
Location: Woonsocket State: RI
Weather: Clear, 40s

Well ID: MW-9
Sample Date: 1/12/2022
Sampler's Name: BNR

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 1/12/22, 11:07

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	29.82	Standing Water in Well (feet):	9.82
Depth to LNAPL (feet):	NP	Well Diameter (in.)	2
Depth to Water (feet):	20	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	NP	Standpipe: TPVC to Ground Surface (feet)	NM
Well Screened Interval (feet BGS):	16 to 26	Roadbox: TPVC to Ground Surface (feet)	NM

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [ ] Pump / [X] Low Flow

Pump Type: Geotech No. Rental
Flow-Thru Cell Vol (mL): 500

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 12:50 **Stop time:** 13:29

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (mS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
13:03	20.00	164.3	5.95	705	4.4	10.8	44.32	<500	--
13:23	20.00	164.4	5.93	712	1.93	10.5	5.54	<500	--
13:26	20.00	164.6	5.94	711	1.91	10.5	5.21	<500	--
13:29	20.00	164.7	5.94	712	1.92	10.5	5.06	<500	--

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 13:29

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	Vial	VOA	HCl	ICE

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 1 Gal **Tubing Volume:** 0.07455

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

NM - Not Measured NP - No Product observed BGS - below ground surface FT - feet in - inches mL - milliliters GAL - gallons mvolts - millivolts s.u. - standard units
mS/cm - microsiemens per centimeter mg/L - milligrams per liter ºC - degrees Celcius ntu - Nephelometric Turbidity Unit mL/min - milliliters per minute

APPENDIX D

LABORATORY CERTIFICATES

eurofins | Environment Testing New England

ANALYTICAL REPORT

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Tel: (413)789-9018

Laboratory Job ID: 620-2319-1
Client Project/Site: 92 Sunnyside Ave - Woonsocket, RI

For:
GZA GeoEnvironmental, Inc.
188 Valley St
Suite 300
Providence, Rhode Island 02909

Attn: Erik Beloff

Authorized for release by:
1/6/2022 10:24:47 PM

Agnes Huntley, Project Manager
(401)372-3482
agnes.huntley@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low 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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Subcontract

Qualifier	Qualifier Description
I	This parameter is outside laboratory lcs/lcsd specified recovery limits.

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

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Job ID: 620-2319-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-2319-1

Comments
No additional comments.

Receipt
The samples were received on 12/15/2021 3:15 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 was 2.9º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The CoC indicates that there was only 1 VOA vial submitted for the TB. However 3 were submitted.

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. The following analytes are outside acceptance criteria: Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12), Vinyl chloride

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) recovered outside control limits for the following analyte(s): Dichlorodifluoromethane (Freon 12), which has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Samples ND.

Method 8260C: Surrogate recovery for the following samples were outside control limits: GZ-7 (620-2319-2), GZ-8 (620-2319-3), GZ-6 (620-2319-4) and GZ-2 (620-2319-6). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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. Bromomethane, Chloromethane, Chloroethane and Dichlorodifluoromethane (Freon 12)

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

GC Semi VOA
Method 8100: The following sample required a dilution due to the nature of the sample matrix: GZ-2 (620-2319-6). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

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

Subcontract Work
Method General Subcontract Method 8260: This method was subcontracted to Phoenix Environmental Laboratories, Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: Trip Blank
Lab Sample ID: 620-2319-1

No Detections.

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	118		30.7		ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	131	E	3.07		ug/Kg	1	☼	8260C	Total/NA
tert-Butylbenzene	21.8		3.07		ug/Kg	1	☼	8260C	Total/NA
Carbon disulfide	7.48		6.13		ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	170	E	3.07		ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	10.1		3.07		ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	8190	E	3.07		ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	431	E	3.07		ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	248	E	3.07		ug/Kg	1	☼	8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	56.9		6.13		ug/Kg	1	☼	8260C	Total/NA
Naphthalene	55.5		3.07		ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	334	E	3.07		ug/Kg	1	☼	8260C	Total/NA
Toluene	137	E	3.07		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	2580	E	3.07		ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	1160	E	3.07		ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	22800	E	3.07		ug/Kg	1	☼	8260C	Total/NA
o-Xylene	9300	E	3.07		ug/Kg	1	☼	8260C	Total/NA
TEPH (C9-C36)	9630		295		mg/Kg	10	☼	8100	Total/NA
1,2,4-Trimethylbenzene	89000		11000		ug/Kg	1000		Local Method 8260	Total/NA
1,3,5-Trimethylbenzene	42000		11000		ug/Kg	1000		Local Method 8260	Total/NA
Ethylbenzene	190000		11000		ug/Kg	1000		Local Method 8260	Total/NA
Isopropylbenzene	14000		11000		ug/Kg	1000		Local Method 8260	Total/NA
m&p-Xylene	530000		11000		ug/Kg	1000		Local Method 8260	Total/NA
Naphthalene	11000		11000		ug/Kg	1000		Local Method 8260	Total/NA
n-Butylbenzene	5900		5600		ug/Kg	1000		Local Method 8260	Total/NA
n-Propylbenzene	11000		11000		ug/Kg	1000		Local Method 8260	Total/NA
o-Xylene	210000		11000		ug/Kg	1000		Local Method 8260	Total/NA
p-Isopropyltoluene	12000		11000		ug/Kg	1000		Local Method 8260	Total/NA
sec-Butylbenzene	5800		5600		ug/Kg	1000		Local Method 8260	Total/NA
Total Xylenes	740000		11000		ug/Kg	1000		Local Method 8260	Total/NA

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	48.1		26.0		ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	7.65		5.21		ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	34.7		2.60		ug/Kg	1	☼	8260C	Total/NA
tert-Butylbenzene	4.08		2.60		ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	171	E	2.60		ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: GZ-8 (Continued)
Lab Sample ID: 620-2319-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	6.03		2.60		ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	171	E	2.60		ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	45.3		2.60		ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	80.7		2.60		ug/Kg	1	☼	8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	9.65		5.21		ug/Kg	1	☼	8260C	Total/NA
Naphthalene	31.1		2.60		ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	50.7		2.60		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trichlorobenzene	13.2		2.60		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	311	E	2.60		ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	111	E	2.60		ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	480	E	2.60		ug/Kg	1	☼	8260C	Total/NA
o-Xylene	245	E	2.60		ug/Kg	1	☼	8260C	Total/NA
TEPH (C9-C36)	827		13.9		mg/Kg	1	☼	8100	Total/NA
1,2,4-Trichlorobenzene	230		210		ug/Kg	50		Local Method 8260	Total/NA
1,2,4-Trimethylbenzene	710		530		ug/Kg	50		Local Method 8260	Total/NA
1,2-Dichlorobenzene	690		530		ug/Kg	50		Local Method 8260	Total/NA
Naphthalene	310		300		ug/Kg	50		Local Method 8260	Total/NA
o-Xylene	420		400		ug/Kg	50		Local Method 8260	Total/NA
p-Isopropyltoluene	260		250		ug/Kg	50		Local Method 8260	Total/NA
sec-Butylbenzene	240		230		ug/Kg	50		Local Method 8260	Total/NA
Total Xylenes	420		400		ug/Kg	50		Local Method 8260	Total/NA

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	220	E	26.3		ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	24.2		5.26		ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	79.4		2.63		ug/Kg	1	☼	8260C	Total/NA
tert-Butylbenzene	12.4		2.63		ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	55.6		2.63		ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	380	E	2.63		ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	44.7		2.63		ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	2960	E	2.63		ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	207	E	2.63		ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	197	E	2.63		ug/Kg	1	☼	8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	62.5		5.26		ug/Kg	1	☼	8260C	Total/NA
Naphthalene	226	E	2.63		ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	224	E	2.63		ug/Kg	1	☼	8260C	Total/NA
Toluene	28.2		2.63		ug/Kg	1	☼	8260C	Total/NA
1,2,3-Trichlorobenzene	13.9		2.63		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trichlorobenzene	127	E	2.63		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	1670	E	2.63		ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	687	E	2.63		ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	6510	E	2.63		ug/Kg	1	☼	8260C	Total/NA
o-Xylene	3000	E	2.63		ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GZ-6 (Continued)
Lab Sample ID: 620-2319-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	2640		134		mg/Kg	10	☼	8100	Total/NA
1,2,4-Trichlorobenzene	1000		1000		ug/Kg	100		Local Method 8260	Total/NA
1,2,4-Trimethylbenzene	9500		1000		ug/Kg	100		Local Method 8260	Total/NA
1,2-Dichlorobenzene	1700		1000		ug/Kg	100		Local Method 8260	Total/NA
1,3,5-Trimethylbenzene	4300		1000		ug/Kg	100		Local Method 8260	Total/NA
Ethylbenzene	13000		1000		ug/Kg	100		Local Method 8260	Total/NA
Isopropylbenzene	1200		1000		ug/Kg	100		Local Method 8260	Total/NA
m&p-Xylene	42000		1000		ug/Kg	100		Local Method 8260	Total/NA
Naphthalene	1300		1000		ug/Kg	100		Local Method 8260	Total/NA
n-Butylbenzene	880		810		ug/Kg	100		Local Method 8260	Total/NA
n-Propylbenzene	1300		1000		ug/Kg	100		Local Method 8260	Total/NA
o-Xylene	14000		1000		ug/Kg	100		Local Method 8260	Total/NA
p-Isopropyltoluene	1400		1000		ug/Kg	100		Local Method 8260	Total/NA
sec-Butylbenzene	580		560		ug/Kg	100		Local Method 8260	Total/NA
Total Xylenes	56000		1000		ug/Kg	100		Local Method 8260	Total/NA

Client Sample ID: GZ-2
Lab Sample ID: 620-2319-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acetone	234	E	29.7		ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	25.0		5.94		ug/Kg	1	☼	8260C	Total/NA
sec-Butylbenzene	5.55		2.97		ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	7.42		2.97		ug/Kg	1	☼	8260C	Total/NA
1,4-Dichlorobenzene	3.86		2.97		ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	7.61		2.97		ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	6.70		2.97		ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	10.1		2.97		ug/Kg	1	☼	8260C	Total/NA
Naphthalene	15.6		2.97		ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	7.42		2.97		ug/Kg	1	☼	8260C	Total/NA
1,2,3-Trichlorobenzene	8.87		2.97		ug/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	44.1		2.97		ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	19.9		2.97		ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	15.3		2.97		ug/Kg	1	☼	8260C	Total/NA
o-Xylene	23.6		2.97		ug/Kg	1	☼	8260C	Total/NA
TEPH (C9-C36)	54000		3550		mg/Kg	10	☼	8100	Total/NA
1,2,4-Trimethylbenzene	13000		490		ug/Kg	83.8		Local Method 8260	Total/NA
1,2-Dichlorobenzene	2700		490		ug/Kg	83.8		Local Method 8260	Total/NA
1,3,5-Trimethylbenzene	6400		490		ug/Kg	83.8		Local Method 8260	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GZ-2 (Continued)
Lab Sample ID: 620-2319-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1000		490		ug/Kg	83.8		Local Method 8260	Total/NA
2-Isopropyltoluene	760		490		ug/Kg	83.8		Local Method 8260	Total/NA
Ethylbenzene	940		490		ug/Kg	83.8		Local Method 8260	Total/NA
Isopropylbenzene	1500		490		ug/Kg	83.8		Local Method 8260	Total/NA
m&p-Xylene	2000		490		ug/Kg	83.8		Local Method 8260	Total/NA
Naphthalene	4500		490		ug/Kg	83.8		Local Method 8260	Total/NA
n-Butylbenzene	1700		490		ug/Kg	83.8		Local Method 8260	Total/NA
n-Propylbenzene	2100		490		ug/Kg	83.8		Local Method 8260	Total/NA
o-Xylene	3600		490		ug/Kg	83.8		Local Method 8260	Total/NA
p-Isopropyltoluene	2500		490		ug/Kg	83.8		Local Method 8260	Total/NA
sec-Butylbenzene	2000		490		ug/Kg	83.8		Local Method 8260	Total/NA
Total Xylenes	5600		490		ug/Kg	83.8		Local Method 8260	Total/NA

Client Sample ID: GZ-1
Lab Sample ID: 620-2319-7

No Detections.

Client Sample ID: GZ-3
Lab Sample ID: 620-2319-8

No Detections.

Client Sample ID: GZ-4
Lab Sample ID: 620-2319-9

No Detections.

Client Sample ID: GZ-9
Lab Sample ID: 620-2319-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	33.0		17.0		mg/Kg	1	☼	8100	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: Trip Blank
Date Collected: 12/10/21 08:00
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Acetone	ND		50.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Acrylonitrile	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Benzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Bromobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Bromochloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Bromodichloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Bromoform	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Bromomethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
2-Butanone (MEK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
n-Butylbenzene	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
sec-Butylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
tert-Butylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Carbon disulfide	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Carbon tetrachloride	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Chlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Chloroethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Chloroform	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Chloromethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
2-Chlorotoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
4-Chlorotoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Dibromochloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Dibromomethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Dichlorodifluoromethane (Freon 12)	ND	*-	10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1-Dichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2-Dichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,3-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
2,2-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Ethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Hexachlorobutadiene	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Isopropylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
4-Isopropyltoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Methylene Chloride	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Naphthalene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: Trip Blank
Lab Sample ID: 620-2319-1
Date Collected: 12/10/21 08:00
Matrix: Solid
Date Received: 12/15/21 15:15

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Styrene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Tetrachloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Toluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Trichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Vinyl chloride	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
m,p-Xylene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
o-Xylene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Tetrahydrofuran	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Ethyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
di-Isopropyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
tert-Butanol	ND		100		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
1,4-Dioxane	ND		100		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		12/17/21 12:34	12/17/21 14:25	1
Ethanol	ND		1000		ug/Kg		12/17/21 12:34	12/17/21 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/17/21 12:34*	*12/17/21 14:25*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/17/21 12:34*	*12/17/21 14:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*	*12/17/21 12:34*	*12/17/21 14:25*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*	*12/17/21 12:34*	*12/17/21 14:25*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2
Date Collected: 12/10/21 09:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Acetone	**118**		30.7		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Acrylonitrile	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Benzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Bromobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Bromochloromethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Bromodichloromethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Bromoform	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Bromomethane	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
2-Butanone (MEK)	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
n-Butylbenzene	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
sec-Butylbenzene	**131**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
tert-Butylbenzene	**21.8**		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Carbon disulfide	**7.48**		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Carbon tetrachloride	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Chlorobenzene	**170**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Chloroethane	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Chloroform	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Chloromethane	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
2-Chlorotoluene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
4-Chlorotoluene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2-Dibromo-3-Chloropropane	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Dibromochloromethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2-Dibromoethane (EDB)	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Dibromomethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2-Dichlorobenzene	**10.1**		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,3-Dichlorobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,4-Dichlorobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Dichlorodifluoromethane (Freon 12)	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1-Dichloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2-Dichloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1-Dichloroethene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
cis-1,2-Dichloroethene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
trans-1,2-Dichloroethene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2-Dichloropropane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,3-Dichloropropane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
2,2-Dichloropropane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1-Dichloropropene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
cis-1,3-Dichloropropene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
trans-1,3-Dichloropropene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Ethylbenzene	**8190**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Hexachlorobutadiene	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
2-Hexanone (MBK)	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Isopropylbenzene	**431**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
4-Isopropyltoluene	**248**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Methyl tert-butyl ether	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
4-Methyl-2-pentanone (MIBK)	**56.9**		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Methylene Chloride	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Naphthalene	**55.5**		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1

Client Sample ID: GZ-7
Date Collected: 12/10/21 09:45
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-2
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**334**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Styrene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1,1,2-Tetrachloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1,2,2-Tetrachloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Tetrachloroethene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Toluene	**137**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2,3-Trichlorobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2,4-Trichlorobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,3,5-Trichlorobenzene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1,1-Trichloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,1,2-Trichloroethane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Trichloroethene	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Trichlorofluoromethane (Freon 11)	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2,3-Trichloropropane	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,2,4-Trimethylbenzene	**2580**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,3,5-Trimethylbenzene	**1160**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Vinyl chloride	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
m,p-Xylene	**22800**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
o-Xylene	**9300**	**E**	3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Tetrahydrofuran	ND		6.13		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Ethyl ether	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Tert-amyl methyl ether	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Ethyl tert-butyl ether	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
di-Isopropyl ether	ND		3.07		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
tert-Butanol	ND		61.3		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
1,4-Dioxane	ND		61.3		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
trans-1,4-Dichloro-2-butene	ND		15.3		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1
Ethanol	ND		613		ug/Kg	☼	12/22/21 14:24	12/22/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*199*	*S1+*	*70 - 130*	*12/22/21 14:24*	*12/22/21 16:47*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/22/21 14:24*	*12/22/21 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*	*12/22/21 14:24*	*12/22/21 16:47*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*12/22/21 14:24*	*12/22/21 16:47*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**9630**		295		mg/Kg	☼	12/22/21 12:07	12/27/21 12:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*70*		*40 - 140*	*12/22/21 12:07*	*12/27/21 12:03*	*10*
o-Terphenyl (Surr)	*114*		*40 - 140*	*12/22/21 12:07*	*12/27/21 12:03*	*10*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1		%			12/19/21 15:50	1
Percent Solids	**89.0**		0.1		%			12/19/21 15:50	1

Method: Local Method 8260 - VOC by 8260

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2
Date Collected: 12/10/21 09:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 89.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,1,2,2-Tetrachloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,1,2-Trichloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,1-Dichloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,1-Dichloroethene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,1-Dichloropropene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2,3-Trichlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2,3-Trichloropropane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2,4-Trichlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2,4-Trimethylbenzene	**89000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2-Dibromo-3-chloropropane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2-Dibromoethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2-Dichlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2-Dichloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,2-Dichloropropane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,3,5-Trimethylbenzene	**42000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,3-Dichlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,3-Dichloropropane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
1,4-Dichlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
2,2-Dichloropropane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
2-Chlorotoluene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
2-Hexanone	ND		54000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
2-Isopropyltoluene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
4-Chlorotoluene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
4-Methyl-2-pentanone	ND		54000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Acetone	ND		220000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Acrylonitrile	ND		22000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Benzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Bromobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Bromochloromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Bromodichloromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Bromoform	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Bromomethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Carbon Disulfide	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Carbon tetrachloride	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Chlorobenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Chloroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Chloroform	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Chloromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
cis-1,2-Dichloroethene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
cis-1,3-Dichloropropene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Dibromochloromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Dibromomethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Dichlorodifluoromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Ethylbenzene	**190000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Hexachlorobutadiene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Isopropylbenzene	**14000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
m&p-Xylene	**530000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Methyl Ethyl Ketone	ND		54000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2
Date Collected: 12/10/21 09:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 89.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl t-butyl ether (MTBE)	ND		22000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Methylene chloride	ND		22000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Naphthalene	**11000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
n-Butylbenzene	**5900**		5600		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
n-Propylbenzene	**11000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
o-Xylene	**210000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
p-Isopropyltoluene	**12000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
sec-Butylbenzene	**5800**		5600		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Styrene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
tert-Butylbenzene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Tetrachloroethene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Tetrahydrofuran (THF)	ND		22000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Toluene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Total Xylenes	**740000**		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
trans-1,2-Dichloroethene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
trans-1,3-Dichloropropene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
trans-1,4-dichloro-2-butene	ND		22000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Trichloroethene	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Trichlorofluoromethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Trichlorotrifluoroethane	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000
Vinyl chloride	ND		11000		ug/Kg		12/29/21 11:50	12/29/21 11:50	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*99*		*70 - 130*	*12/29/21 11:50*	*12/29/21 11:50*	*1000*
% Bromofluorobenzene	*102*		*70 - 130*	*12/29/21 11:50*	*12/29/21 11:50*	*1000*
% Dibromofluoromethane	*97*		*70 - 130*	*12/29/21 11:50*	*12/29/21 11:50*	*1000*
% Toluene-d8	*99*		*70 - 130*	*12/29/21 11:50*	*12/29/21 11:50*	*1000*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3
Date Collected: 12/10/21 10:15
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Acetone	**48.1**		26.0		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Acrylonitrile	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Benzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Bromobenzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Bromochloromethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Bromodichloromethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Bromoform	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Bromomethane	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
2-Butanone (MEK)	**7.65**		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
n-Butylbenzene	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
sec-Butylbenzene	**34.7**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
tert-Butylbenzene	**4.08**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Carbon disulfide	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Carbon tetrachloride	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Chlorobenzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Chloroethane	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Chloroform	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Chloromethane	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
2-Chlorotoluene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
4-Chlorotoluene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2-Dibromo-3-Chloropropane	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Dibromochloromethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2-Dibromoethane (EDB)	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Dibromomethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2-Dichlorobenzene	**171**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,3-Dichlorobenzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,4-Dichlorobenzene	**6.03**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Dichlorodifluoromethane (Freon 12)	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1-Dichloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2-Dichloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1-Dichloroethene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
cis-1,2-Dichloroethene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
trans-1,2-Dichloroethene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2-Dichloropropane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,3-Dichloropropane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
2,2-Dichloropropane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1-Dichloropropene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
cis-1,3-Dichloropropene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
trans-1,3-Dichloropropene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Ethylbenzene	**171**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Hexachlorobutadiene	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
2-Hexanone (MBK)	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Isopropylbenzene	**45.3**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
4-Isopropyltoluene	**80.7**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Methyl tert-butyl ether	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
4-Methyl-2-pentanone (MIBK)	**9.65**		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Methylene Chloride	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Naphthalene	**31.1**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1

Client Sample ID: GZ-8
Date Collected: 12/10/21 10:15
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-3
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**50.7**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Styrene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1,1,2-Tetrachloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1,2,2-Tetrachloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Tetrachloroethene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Toluene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2,3-Trichlorobenzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2,4-Trichlorobenzene	**13.2**		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,3,5-Trichlorobenzene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1,1-Trichloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,1,2-Trichloroethane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Trichloroethene	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Trichlorofluoromethane (Freon 11)	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2,3-Trichloropropane	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,2,4-Trimethylbenzene	**311**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,3,5-Trimethylbenzene	**111**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Vinyl chloride	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
m,p-Xylene	**480**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
o-Xylene	**245**	**E**	2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Tetrahydrofuran	ND		5.21		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Ethyl ether	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Tert-amyl methyl ether	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Ethyl tert-butyl ether	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
di-Isopropyl ether	ND		2.60		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
tert-Butanol	ND		52.1		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
1,4-Dioxane	ND		52.1		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
trans-1,4-Dichloro-2-butene	ND		13.0		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1
Ethanol	ND		521		ug/Kg	☼	12/22/21 14:24	12/22/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*12/22/21 14:24*	*12/22/21 17:14*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:14*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:14*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**827**		13.9		mg/Kg	☼	12/22/21 12:07	12/23/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*59*		*40 - 140*	*12/22/21 12:07*	*12/23/21 17:23*	*1*
o-Terphenyl (Surr)	*68*		*40 - 140*	*12/22/21 12:07*	*12/23/21 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1		%			12/19/21 15:50	1
Percent Solids	**91.1**		0.1		%			12/19/21 15:50	1

Method: Local Method 8260 - VOC by 8260

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3
Date Collected: 12/10/21 10:15
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 91.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,1,2,2-Tetrachloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,1,2-Trichloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,1-Dichloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,1-Dichloroethene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,1-Dichloropropene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2,3-Trichlorobenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2,3-Trichloropropane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2,4-Trichlorobenzene	**230**		210		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2,4-Trimethylbenzene	**710**		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2-Dibromo-3-chloropropane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2-Dibromoethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2-Dichlorobenzene	**690**		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2-Dichloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,2-Dichloropropane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,3,5-Trimethylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,3-Dichlorobenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,3-Dichloropropane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
1,4-Dichlorobenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
2,2-Dichloropropane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
2-Chlorotoluene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
2-Hexanone	ND		2600		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
2-Isopropyltoluene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
4-Chlorotoluene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
4-Methyl-2-pentanone	ND		2600		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Acetone	ND		11000		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Acrylonitrile	ND		1100		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Benzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Bromobenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Bromochloromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Bromodichloromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Bromoform	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Bromomethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Carbon Disulfide	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Carbon tetrachloride	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Chlorobenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Chloroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Chloroform	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Chloromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
cis-1,2-Dichloroethene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
cis-1,3-Dichloropropene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Dibromochloromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Dibromomethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Dichlorodifluoromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Ethylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Hexachlorobutadiene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Isopropylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
m&p-Xylene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Methyl Ethyl Ketone	ND		2600		ug/Kg		12/29/21 16:06	12/29/21 16:06	50

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3
Date Collected: 12/10/21 10:15
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 91.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl t-butyl ether (MTBE)	ND		1100		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Methylene chloride	ND		1100		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Naphthalene	**310**		300		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
n-Butylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
n-Propylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
o-Xylene	**420**		400		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
p-Isopropyltoluene	**260**		250		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
sec-Butylbenzene	**240**		230		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Styrene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
tert-Butylbenzene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Tetrachloroethene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Tetrahydrofuran (THF)	ND		1100		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Toluene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Total Xylenes	**420**		400		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
trans-1,2-Dichloroethene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
trans-1,3-Dichloropropene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
trans-1,4-dichloro-2-butene	ND		1100		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Trichloroethene	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Trichlorofluoromethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Trichlorotrifluoroethane	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50
Vinyl chloride	ND		530		ug/Kg		12/29/21 16:06	12/29/21 16:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*99*		*70 - 130*	*12/29/21 16:06*	*12/29/21 16:06*	*50*
% Bromofluorobenzene	*107*		*70 - 130*	*12/29/21 16:06*	*12/29/21 16:06*	*50*
% Dibromofluoromethane	*93*		*70 - 130*	*12/29/21 16:06*	*12/29/21 16:06*	*50*
% Toluene-d8	*98*		*70 - 130*	*12/29/21 16:06*	*12/29/21 16:06*	*50*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4
Date Collected: 12/10/21 10:55
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Acetone	**220**	**E**	26.3		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Acrylonitrile	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Benzene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Bromobenzene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Bromochloromethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Bromodichloromethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Bromoform	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Bromomethane	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
2-Butanone (MEK)	**24.2**		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
n-Butylbenzene	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
sec-Butylbenzene	**79.4**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
tert-Butylbenzene	**12.4**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Carbon disulfide	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Carbon tetrachloride	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Chlorobenzene	**55.6**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Chloroethane	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Chloroform	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Chloromethane	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
2-Chlorotoluene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
4-Chlorotoluene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2-Dibromo-3-Chloropropane	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Dibromochloromethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2-Dibromoethane (EDB)	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Dibromomethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2-Dichlorobenzene	**380**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,3-Dichlorobenzene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,4-Dichlorobenzene	**44.7**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Dichlorodifluoromethane (Freon 12)	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1-Dichloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2-Dichloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1-Dichloroethene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
cis-1,2-Dichloroethene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
trans-1,2-Dichloroethene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2-Dichloropropane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,3-Dichloropropane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
2,2-Dichloropropane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1-Dichloropropene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
cis-1,3-Dichloropropene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
trans-1,3-Dichloropropene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Ethylbenzene	**2960**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Hexachlorobutadiene	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
2-Hexanone (MBK)	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Isopropylbenzene	**207**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
4-Isopropyltoluene	**197**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Methyl tert-butyl ether	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
4-Methyl-2-pentanone (MIBK)	**62.5**		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Methylene Chloride	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Naphthalene	**226**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1

Client Sample ID: GZ-6
Date Collected: 12/10/21 10:55
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-4
Matrix: Solid
Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**224**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Styrene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1,1,2-Tetrachloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1,2,2-Tetrachloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Tetrachloroethene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Toluene	**28.2**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2,3-Trichlorobenzene	**13.9**		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2,4-Trichlorobenzene	**127**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,3,5-Trichlorobenzene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1,1-Trichloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,1,2-Trichloroethane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Trichloroethene	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Trichlorofluoromethane (Freon 11)	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2,3-Trichloropropane	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,2,4-Trimethylbenzene	**1670**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,3,5-Trimethylbenzene	**687**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Vinyl chloride	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
m,p-Xylene	**6510**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
o-Xylene	**3000**	**E**	2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Tetrahydrofuran	ND		5.26		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Ethyl ether	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Tert-amyl methyl ether	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Ethyl tert-butyl ether	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
di-Isopropyl ether	ND		2.63		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
tert-Butanol	ND		52.6		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
1,4-Dioxane	ND		52.6		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
trans-1,4-Dichloro-2-butene	ND		13.2		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1
Ethanol	ND		526		ug/Kg	☼	12/22/21 14:24	12/22/21 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*189*	*S1+*	*70 - 130*	*12/22/21 14:24*	*12/22/21 17:42*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:42*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*12/22/21 14:24*	*12/22/21 17:42*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**2640**		134		mg/Kg	☼	12/22/21 12:07	12/27/21 13:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*59*		*40 - 140*	*12/22/21 12:07*	*12/27/21 13:10*	*10*
o-Terphenyl (Surr)	*70*		*40 - 140*	*12/22/21 12:07*	*12/27/21 13:10*	*10*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.0**		0.1		%			12/19/21 15:50	1
Percent Solids	**95.0**		0.1		%			12/19/21 15:50	1

Method: Local Method 8260 - VOC by 8260

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4
Date Collected: 12/10/21 10:55
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,1,2,2-Tetrachloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,1,2-Trichloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,1-Dichloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,1-Dichloroethene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,1-Dichloropropene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2,3-Trichlorobenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2,3-Trichloropropane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2,4-Trichlorobenzene	**1000**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2,4-Trimethylbenzene	**9500**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2-Dibromo-3-chloropropane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2-Dibromoethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2-Dichlorobenzene	**1700**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2-Dichloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,2-Dichloropropane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,3,5-Trimethylbenzene	**4300**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,3-Dichlorobenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,3-Dichloropropane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
1,4-Dichlorobenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
2,2-Dichloropropane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
2-Chlorotoluene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
2-Hexanone	ND		5000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
2-Isopropyltoluene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
4-Chlorotoluene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
4-Methyl-2-pentanone	ND		5000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Acetone	ND		20000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Acrylonitrile	ND		2000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Benzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Bromobenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Bromochloromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Bromodichloromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Bromoform	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Bromomethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Carbon Disulfide	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Carbon tetrachloride	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Chlorobenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Chloroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Chloroform	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Chloromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
cis-1,2-Dichloroethene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
cis-1,3-Dichloropropene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Dibromochloromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Dibromomethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Dichlorodifluoromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Ethylbenzene	**13000**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Hexachlorobutadiene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Isopropylbenzene	**1200**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
m&p-Xylene	**42000**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Methyl Ethyl Ketone	ND		5000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4
Date Collected: 12/10/21 10:55
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.0

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl t-butyl ether (MTBE)	ND		2000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Methylene chloride	ND		2000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Naphthalene	**1300**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
n-Butylbenzene	**880**		810		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
n-Propylbenzene	**1300**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
o-Xylene	**14000**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
p-Isopropyltoluene	**1400**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
sec-Butylbenzene	**580**		560		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Styrene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
tert-Butylbenzene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Tetrachloroethene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Tetrahydrofuran (THF)	ND		2000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Toluene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Total Xylenes	**56000**		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
trans-1,2-Dichloroethene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
trans-1,3-Dichloropropene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
trans-1,4-dichloro-2-butene	ND		2000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Trichloroethene	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Trichlorofluoromethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Trichlorotrifluoroethane	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100
Vinyl chloride	ND		1000		ug/Kg		12/29/21 16:26	12/29/21 16:26	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*100*		*70 - 130*	*12/29/21 16:26*	*12/29/21 16:26*	*100*
% Bromofluorobenzene	*100*		*70 - 130*	*12/29/21 16:26*	*12/29/21 16:26*	*100*
% Dibromofluoromethane	*92*		*70 - 130*	*12/29/21 16:26*	*12/29/21 16:26*	*100*
% Toluene-d8	*98*		*70 - 130*	*12/29/21 16:26*	*12/29/21 16:26*	*100*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-2
Date Collected: 12/10/21 13:45
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-6
Matrix: Solid
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Acetone	**234**	**E**	29.7		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Acrylonitrile	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Benzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Bromobenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Bromochloromethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Bromodichloromethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Bromoform	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Bromomethane	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
2-Butanone (MEK)	**25.0**		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
n-Butylbenzene	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
sec-Butylbenzene	**5.55**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
tert-Butylbenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Carbon disulfide	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Carbon tetrachloride	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Chlorobenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Chloroethane	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Chloroform	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Chloromethane	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
2-Chlorotoluene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
4-Chlorotoluene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2-Dibromo-3-Chloropropane	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Dibromochloromethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2-Dibromoethane (EDB)	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Dibromomethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2-Dichlorobenzene	**7.42**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,3-Dichlorobenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,4-Dichlorobenzene	**3.86**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Dichlorodifluoromethane (Freon 12)	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1-Dichloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2-Dichloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1-Dichloroethene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
cis-1,2-Dichloroethene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
trans-1,2-Dichloroethene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2-Dichloropropane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,3-Dichloropropane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
2,2-Dichloropropane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1-Dichloropropene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
cis-1,3-Dichloropropene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
trans-1,3-Dichloropropene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Ethylbenzene	**7.61**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Hexachlorobutadiene	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
2-Hexanone (MBK)	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Isopropylbenzene	**6.70**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
4-Isopropyltoluene	**10.1**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Methyl tert-butyl ether	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Methylene Chloride	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Naphthalene	**15.6**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1

Client Sample ID: GZ-2
Date Collected: 12/10/21 13:45
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-6
Matrix: Solid
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**7.42**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Styrene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1,1,2-Tetrachloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1,2,2-Tetrachloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Tetrachloroethene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Toluene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2,3-Trichlorobenzene	**8.87**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2,4-Trichlorobenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,3,5-Trichlorobenzene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1,1-Trichloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,1,2-Trichloroethane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Trichloroethene	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Trichlorofluoromethane (Freon 11)	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2,3-Trichloropropane	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,2,4-Trimethylbenzene	**44.1**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,3,5-Trimethylbenzene	**19.9**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Vinyl chloride	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
m,p-Xylene	**15.3**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
o-Xylene	**23.6**		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Tetrahydrofuran	ND		5.94		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Ethyl ether	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Tert-amyl methyl ether	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Ethyl tert-butyl ether	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
di-Isopropyl ether	ND		2.97		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
tert-Butanol	ND		59.4		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
1,4-Dioxane	ND		59.4		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
trans-1,4-Dichloro-2-butene	ND		14.8		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1
Ethanol	ND		594		ug/Kg	☼	12/22/21 14:24	12/22/21 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*12/22/21 14:24*	*12/22/21 18:09*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:09*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:09*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**54000**		3550		mg/Kg	☼	12/22/21 12:07	12/23/21 14:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*0*	*S1-*	*40 - 140*	*12/22/21 12:07*	*12/23/21 14:29*	*10*
o-Terphenyl (Surr)	*0*	*S1-*	*40 - 140*	*12/22/21 12:07*	*12/23/21 14:29*	*10*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1		%			12/19/21 15:50	1
Percent Solids	**90.9**		0.1		%			12/19/21 15:50	1

Method: Local Method 8260 - VOC by 8260

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-2
Lab Sample ID: 620-2319-6
Date Collected: 12/10/21 13:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 90.9

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,1,2,2-Tetrachloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,1,2-Trichloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,1-Dichloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,1-Dichloroethene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,1-Dichloropropene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2,3-Trichlorobenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2,3-Trichloropropane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2,4-Trichlorobenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2,4-Trimethylbenzene	**13000**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2-Dibromo-3-chloropropane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2-Dibromoethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2-Dichlorobenzene	**2700**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2-Dichloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,2-Dichloropropane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,3,5-Trimethylbenzene	**6400**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,3-Dichlorobenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,3-Dichloropropane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
1,4-Dichlorobenzene	**1000**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
2,2-Dichloropropane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
2-Chlorotoluene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
2-Hexanone	ND		2400		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
2-Isopropyltoluene	**760**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
4-Chlorotoluene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
4-Methyl-2-pentanone	ND		2400		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Acetone	ND		9700		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Acrylonitrile	ND		970		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Benzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Bromobenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Bromochloromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Bromodichloromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Bromoform	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Bromomethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Carbon Disulfide	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Carbon tetrachloride	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Chlorobenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Chloroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Chloroform	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Chloromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
cis-1,2-Dichloroethene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
cis-1,3-Dichloropropene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Dibromochloromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Dibromomethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Dichlorodifluoromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Ethylbenzene	**940**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Hexachlorobutadiene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Isopropylbenzene	**1500**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
m&p-Xylene	**2000**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Methyl Ethyl Ketone	ND		2400		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-2
Lab Sample ID: 620-2319-6
Date Collected: 12/10/21 13:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 90.9

Method: Local Method 8260 - VOC by 8260 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl t-butyl ether (MTBE)	ND		970		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Methylene chloride	ND		970		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Naphthalene	**4500**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
n-Butylbenzene	**1700**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
n-Propylbenzene	**2100**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
o-Xylene	**3600**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
p-Isopropyltoluene	**2500**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
sec-Butylbenzene	**2000**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Styrene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
tert-Butylbenzene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Tetrachloroethene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Tetrahydrofuran (THF)	ND		970		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Toluene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Total Xylenes	**5600**		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
trans-1,2-Dichloroethene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
trans-1,3-Dichloropropene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
trans-1,4-dichloro-2-butene	ND		970		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Trichloroethene	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Trichlorofluoromethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Trichlorotrifluoroethane	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8
Vinyl chloride	ND		490		ug/Kg		01/04/22 12:39	01/04/22 12:39	83.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*94*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*50*
% 1,2-dichlorobenzene-d4	*94*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*83.8*
% Bromofluorobenzene	*146*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*50*
% Bromofluorobenzene	*146*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*83.8*
% Dibromofluoromethane	*90*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*50*
% Dibromofluoromethane	*90*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*83.8*
% Toluene-d8	*98*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*50*
% Toluene-d8	*98*		*70 - 130*	*01/04/22 12:39*	*01/04/22 12:39*	*83.8*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-1
Date Collected: 12/10/21 15:10
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-7
Matrix: Solid
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Acetone	ND		26.8		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Acrylonitrile	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Benzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Bromobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Bromochloromethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Bromodichloromethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Bromoform	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Bromomethane	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
2-Butanone (MEK)	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
n-Butylbenzene	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
sec-Butylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
tert-Butylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Carbon disulfide	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Carbon tetrachloride	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Chlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Chloroethane	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Chloroform	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Chloromethane	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
2-Chlorotoluene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
4-Chlorotoluene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2-Dibromo-3-Chloropropane	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Dibromochloromethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2-Dibromoethane (EDB)	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Dibromomethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2-Dichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,3-Dichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,4-Dichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Dichlorodifluoromethane (Freon 12)	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1-Dichloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2-Dichloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1-Dichloroethene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
cis-1,2-Dichloroethene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
trans-1,2-Dichloroethene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2-Dichloropropane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,3-Dichloropropane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
2,2-Dichloropropane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1-Dichloropropene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
cis-1,3-Dichloropropene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
trans-1,3-Dichloropropene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Ethylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Hexachlorobutadiene	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
2-Hexanone (MBK)	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Isopropylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
4-Isopropyltoluene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Methyl tert-butyl ether	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Methylene Chloride	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Naphthalene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1

Client Sample ID: GZ-1
Date Collected: 12/10/21 15:10
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-7
Matrix: Solid
Percent Solids: 96.3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Styrene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1,1,2-Tetrachloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1,2,2-Tetrachloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Tetrachloroethene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Toluene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2,3-Trichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2,4-Trichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,3,5-Trichlorobenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1,1-Trichloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,1,2-Trichloroethane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Trichloroethene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Trichlorofluoromethane (Freon 11)	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2,3-Trichloropropane	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,2,4-Trimethylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,3,5-Trimethylbenzene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Vinyl chloride	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
m,p-Xylene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
o-Xylene	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Tetrahydrofuran	ND		5.37		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Ethyl ether	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Tert-amyl methyl ether	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Ethyl tert-butyl ether	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
di-Isopropyl ether	ND		2.68		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
tert-Butanol	ND		53.7		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
1,4-Dioxane	ND		53.7		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
trans-1,4-Dichloro-2-butene	ND		13.4		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1
Ethanol	ND		537		ug/Kg	☼	12/22/21 14:24	12/22/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:36*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:36*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*12/22/21 14:24*	*12/22/21 18:36*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.6		mg/Kg	☼	12/22/21 12:07	12/23/21 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*83*		*40 - 140*	*12/22/21 12:07*	*12/23/21 10:41*	*1*
o-Terphenyl (Surr)	*73*		*40 - 140*	*12/22/21 12:07*	*12/23/21 10:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.7**		0.1		%			12/19/21 15:50	1
Percent Solids	**96.3**		0.1		%			12/19/21 15:50	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-3
Lab Sample ID: 620-2319-8
Date Collected: 12/13/21 10:00
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Acetone	ND		26.9		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Acrylonitrile	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Benzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Bromobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Bromochloromethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Bromodichloromethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Bromoform	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Bromomethane	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
2-Butanone (MEK)	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
n-Butylbenzene	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
sec-Butylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
tert-Butylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Carbon disulfide	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Carbon tetrachloride	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Chlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Chloroethane	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Chloroform	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Chloromethane	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
2-Chlorotoluene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
4-Chlorotoluene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2-Dibromo-3-Chloropropane	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Dibromochloromethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2-Dibromoethane (EDB)	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Dibromomethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2-Dichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,3-Dichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,4-Dichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Dichlorodifluoromethane (Freon 12)	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1-Dichloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2-Dichloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1-Dichloroethene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
cis-1,2-Dichloroethene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
trans-1,2-Dichloroethene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2-Dichloropropane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,3-Dichloropropane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
2,2-Dichloropropane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1-Dichloropropene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
cis-1,3-Dichloropropene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
trans-1,3-Dichloropropene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Ethylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Hexachlorobutadiene	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
2-Hexanone (MBK)	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Isopropylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
4-Isopropyltoluene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Methyl tert-butyl ether	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Methylene Chloride	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Naphthalene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1

Client Sample ID: GZ-3
Date Collected: 12/13/21 10:00
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-8
Matrix: Solid
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Styrene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1,1,2-Tetrachloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1,2,2-Tetrachloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Tetrachloroethene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Toluene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2,3-Trichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2,4-Trichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,3,5-Trichlorobenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1,1-Trichloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,1,2-Trichloroethane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Trichloroethene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Trichlorofluoromethane (Freon 11)	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2,3-Trichloropropane	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,2,4-Trimethylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,3,5-Trimethylbenzene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Vinyl chloride	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
m,p-Xylene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
o-Xylene	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Tetrahydrofuran	ND		5.38		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Ethyl ether	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Tert-amyl methyl ether	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Ethyl tert-butyl ether	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
di-Isopropyl ether	ND		2.69		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
tert-Butanol	ND		53.8		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
1,4-Dioxane	ND		53.8		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
trans-1,4-Dichloro-2-butene	ND		13.5		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1
Ethanol	ND		538		ug/Kg	☼	12/22/21 14:24	12/22/21 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/22/21 14:24*	*12/22/21 19:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/22/21 14:24*	*12/22/21 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*12/22/21 14:24*	*12/22/21 19:03*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*12/22/21 14:24*	*12/22/21 19:03*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.2		mg/Kg	☼	12/22/21 12:07	12/23/21 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*79*		*40 - 140*	*12/22/21 12:07*	*12/23/21 11:06*	*1*
o-Terphenyl (Surr)	*70*		*40 - 140*	*12/22/21 12:07*	*12/23/21 11:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1		%			12/19/21 15:50	1
Percent Solids	**95.5**		0.1		%			12/19/21 15:50	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-4
Lab Sample ID: 620-2319-9
Date Collected: 12/13/21 11:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Acetone	ND		29.9		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Acrylonitrile	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Benzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Bromobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Bromochloromethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Bromodichloromethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Bromoform	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Bromomethane	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
2-Butanone (MEK)	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
n-Butylbenzene	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
sec-Butylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
tert-Butylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Carbon disulfide	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Carbon tetrachloride	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Chlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Chloroethane	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Chloroform	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Chloromethane	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
2-Chlorotoluene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
4-Chlorotoluene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2-Dibromo-3-Chloropropane	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Dibromochloromethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2-Dibromoethane (EDB)	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Dibromomethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2-Dichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,3-Dichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,4-Dichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Dichlorodifluoromethane (Freon 12)	ND	*-	5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1-Dichloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2-Dichloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1-Dichloroethene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
cis-1,2-Dichloroethene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
trans-1,2-Dichloroethene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2-Dichloropropane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,3-Dichloropropane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
2,2-Dichloropropane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1-Dichloropropene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
cis-1,3-Dichloropropene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
trans-1,3-Dichloropropene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Ethylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Hexachlorobutadiene	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
2-Hexanone (MBK)	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Isopropylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
4-Isopropyltoluene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Methyl tert-butyl ether	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Methylene Chloride	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Naphthalene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1

Client Sample ID: GZ-4
Date Collected: 12/13/21 11:45
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-9
Matrix: Solid
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Styrene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1,1,2-Tetrachloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1,2,2-Tetrachloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Tetrachloroethene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Toluene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2,3-Trichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2,4-Trichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,3,5-Trichlorobenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1,1-Trichloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,1,2-Trichloroethane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Trichloroethene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Trichlorofluoromethane (Freon 11)	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2,3-Trichloropropane	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,2,4-Trimethylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,3,5-Trimethylbenzene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Vinyl chloride	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
m,p-Xylene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
o-Xylene	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Tetrahydrofuran	ND		5.98		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Ethyl ether	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Tert-amyl methyl ether	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Ethyl tert-butyl ether	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
di-Isopropyl ether	ND		2.99		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
tert-Butanol	ND		59.8		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
1,4-Dioxane	ND		59.8		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
trans-1,4-Dichloro-2-butene	ND		14.9		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1
Ethanol	ND		598		ug/Kg	☼	12/17/21 12:34	12/17/21 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/17/21 12:34*	*12/17/21 15:51*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/17/21 12:34*	*12/17/21 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*12/17/21 12:34*	*12/17/21 15:51*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*	*12/17/21 12:34*	*12/17/21 15:51*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.9		mg/Kg	☼	12/22/21 12:07	12/23/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*82*		*40 - 140*	*12/22/21 12:07*	*12/23/21 16:57*	*1*
o-Terphenyl (Surr)	*72*		*40 - 140*	*12/22/21 12:07*	*12/23/21 16:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1		%			12/19/21 15:50	1
Percent Solids	**95.5**		0.1		%			12/19/21 15:50	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-9
Date Collected: 12/13/21 14:10
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Acetone	ND		37.1		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Acrylonitrile	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Benzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Bromobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Bromochloromethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Bromodichloromethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Bromoform	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Bromomethane	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
2-Butanone (MEK)	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
n-Butylbenzene	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
sec-Butylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
tert-Butylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Carbon disulfide	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Carbon tetrachloride	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Chlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Chloroethane	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Chloroform	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Chloromethane	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
2-Chlorotoluene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
4-Chlorotoluene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2-Dibromo-3-Chloropropane	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Dibromochloromethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2-Dibromoethane (EDB)	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Dibromomethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2-Dichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,3-Dichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,4-Dichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1-Dichloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2-Dichloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1-Dichloroethene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
cis-1,2-Dichloroethene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
trans-1,2-Dichloroethene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2-Dichloropropane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,3-Dichloropropane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
2,2-Dichloropropane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1-Dichloropropene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
cis-1,3-Dichloropropene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
trans-1,3-Dichloropropene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Ethylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Hexachlorobutadiene	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
2-Hexanone (MBK)	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Isopropylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
4-Isopropyltoluene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Methyl tert-butyl ether	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Methylene Chloride	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Naphthalene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1

Client Sample ID: GZ-9
Date Collected: 12/13/21 14:10
Date Received: 12/15/21 15:15

Lab Sample ID: 620-2319-10
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Styrene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1,1,2-Tetrachloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1,2,2-Tetrachloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Tetrachloroethene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Toluene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2,3-Trichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2,4-Trichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,3,5-Trichlorobenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1,1-Trichloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,1,2-Trichloroethane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Trichloroethene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Trichlorofluoromethane (Freon 11)	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2,3-Trichloropropane	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,2,4-Trimethylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,3,5-Trimethylbenzene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Vinyl chloride	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
m,p-Xylene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
o-Xylene	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Tetrahydrofuran	ND		7.43		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Ethyl ether	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Tert-amyl methyl ether	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Ethyl tert-butyl ether	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
di-Isopropyl ether	ND		3.71		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
tert-Butanol	ND		74.3		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
1,4-Dioxane	ND		74.3		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
trans-1,4-Dichloro-2-butene	ND		18.6		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1
Ethanol	ND		743		ug/Kg	☼	12/17/21 12:34	12/17/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*12/17/21 12:34*	*12/17/21 16:18*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*12/17/21 12:34*	*12/17/21 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*12/17/21 12:34*	*12/17/21 16:18*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*	*12/17/21 12:34*	*12/17/21 16:18*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**33.0**		17.0		mg/Kg	☼	12/22/21 12:07	12/23/21 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*94*		*40 - 140*	*12/22/21 12:07*	*12/23/21 11:57*	*1*
o-Terphenyl (Surr)	*83*		*40 - 140*	*12/22/21 12:07*	*12/23/21 11:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.4**		0.1		%			12/19/21 15:50	1
Percent Solids	**76.6**		0.1		%			12/19/21 15:50	1

Surrogate Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-2319-1	Trip Blank	98	98	89	88
620-2319-2	GZ-7	199 S1+	103	122	107
620-2319-3	GZ-8	141 S1+	92	115	103
620-2319-4	GZ-6	189 S1+	98	119	103
620-2319-6	GZ-2	150 S1+	93	98	99
620-2319-7	GZ-1	100	98	91	94
620-2319-8	GZ-3	100	98	90	94
620-2319-9	GZ-4	98	99	93	90
620-2319-10	GZ-9	91	97	91	91
LCS 620-6656/1-A	Lab Control Sample	100	99	91	92
LCS 620-6795/2-A	Lab Control Sample	101	99	89	95
LCSD 620-6656/2-A	Lab Control Sample Dup	101	100	92	93
LCSD 620-6795/3-A	Lab Control Sample Dup	100	99	87	93
MB 620-6656/3-A	Method Blank	100	98	91	89
MB 620-6795/1-A	Method Blank	99	99	88	92

Surrogate Legend

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

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	OTPH
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
620-2319-2	GZ-7	70	114
620-2319-3	GZ-8	59	68
620-2319-4	GZ-6	59	70
620-2319-6	GZ-2	0 S1-	0 S1-
620-2319-7	GZ-1	83	73
620-2319-8	GZ-3	79	70
620-2319-9	GZ-4	82	72
620-2319-10	GZ-9	94	83
LCS 620-6791/2-A	Lab Control Sample	74	66
LCSD 620-6791/3-A	Lab Control Sample Dup	81	64
MB 620-6791/1-A	Method Blank	79	70

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)

Method: Local Method 8260 - VOC by 8260

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		chloroben	chloroben	BFB	BFB	DBFM	DBFM	TOL	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)
620-2319-2	GZ-7	99	99	102	102	97	97	99	99

Surrogate Summary

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Method: Local Method 8260 - VOC by 8260 (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		chloroben	chloroben	BFB	BFB	DBFM	DBFM	TOL	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)	(70-130)
620-2319-3	GZ-8	99	99	107	107	93	93	98	98
620-2319-4	GZ-6	100	100	100	100	92	92	98	98
620-2319-6	GZ-2	94	94	146	146	90	90	98	98

Surrogate Legend

% 1,2-dichlorobenzene-d4 = % 1,2-dichlorobenzene-d4
BFB = % Bromofluorobenzene
DBFM = % Dibromofluoromethane
TOL = % Toluene-d8

Method: Local Method 8260 - VOC by 8260

Matrix: SOLID **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		chloroben	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)				
CK04613-BLK	Method Blank	100	98	97	98				
CK04613-LCS	Lab Control Sample	99	101	102	102				
CK04613-LCSD	Lab Control Sample Dup	100	103	101	99				
CK07115-BLK	Method Blank	96	101	91	97				
CK07115-LCS	Lab Control Sample	99	99	96	103				
CK07115-LCSD	Lab Control Sample Dup	100	100	91	101				

Surrogate Legend

% 1,2-dichlorobenzene-d4 = % 1,2-dichlorobenzene-d4
BFB = % Bromofluorobenzene
DBFM = % Dibromofluoromethane
TOL = % Toluene-d8

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

Lab Sample ID: MB 620-6656/3-A
Matrix: Solid
Analysis Batch: 6641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6656

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Acetone	ND		50.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Acrylonitrile	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Benzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Bromobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Bromochloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Bromodichloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Bromoform	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Bromomethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
2-Butanone (MEK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
n-Butylbenzene	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
sec-Butylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
tert-Butylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Carbon disulfide	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Carbon tetrachloride	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Chlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Chloroethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Chloroform	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Chloromethane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
2-Chlorotoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
4-Chlorotoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Dibromochloromethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Dibromomethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1-Dichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2-Dichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,3-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
2,2-Dichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Ethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Hexachlorobutadiene	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Isopropylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
4-Isopropyltoluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Methylene Chloride	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1

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

Lab Sample ID: MB 620-6656/3-A
Matrix: Solid
Analysis Batch: 6641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6656

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
N-Propylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Styrene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Tetrachloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Toluene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Trichloroethene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Vinyl chloride	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
m,p-Xylene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
o-Xylene	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Tetrahydrofuran	ND		10.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Ethyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
di-Isopropyl ether	ND		5.00		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
tert-Butanol	ND		100		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
1,4-Dioxane	ND		100		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		12/17/21 12:34	12/17/21 13:48	1
Ethanol	ND		1000		ug/Kg		12/17/21 12:34	12/17/21 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/17/21 12:34*	*12/17/21 13:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/17/21 12:34*	*12/17/21 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*12/17/21 12:34*	*12/17/21 13:48*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*	*12/17/21 12:34*	*12/17/21 13:48*	*1*

Lab Sample ID: LCS 620-6656/1-A
Matrix: Solid
Analysis Batch: 6641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.93		ug/Kg		85	70 - 130
Acetone	20.0	17.52	J	ug/Kg		88	70 - 130
Acrylonitrile	20.0	17.21		ug/Kg		86	70 - 130
Benzene	20.0	18.11		ug/Kg		91	70 - 130
Bromobenzene	20.0	18.29		ug/Kg		91	70 - 130
Bromochloromethane	20.0	17.29		ug/Kg		86	70 - 130
Bromodichloromethane	20.0	17.01		ug/Kg		85	70 - 130

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

Lab Sample ID: LCS 620-6656/1-A
Matrix: Solid
Analysis Batch: 6641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	20.0	17.86		ug/Kg		89	70 - 130
Bromomethane	20.0	15.18		ug/Kg		76	70 - 130
2-Butanone (MEK)	20.0	16.90		ug/Kg		85	70 - 130
n-Butylbenzene	20.0	17.48		ug/Kg		87	70 - 130
sec-Butylbenzene	20.0	19.54		ug/Kg		98	70 - 130
tert-Butylbenzene	20.0	18.91		ug/Kg		95	70 - 130
Carbon disulfide	20.0	16.88		ug/Kg		84	70 - 130
Carbon tetrachloride	20.0	16.83		ug/Kg		84	70 - 130
Chlorobenzene	20.0	18.54		ug/Kg		93	70 - 130
Chloroethane	20.0	15.95		ug/Kg		80	70 - 130
Chloroform	20.0	16.75		ug/Kg		84	70 - 130
Chloromethane	20.0	14.99		ug/Kg		75	70 - 130
2-Chlorotoluene	20.0	17.57		ug/Kg		88	70 - 130
4-Chlorotoluene	20.0	18.54		ug/Kg		93	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.80		ug/Kg		84	70 - 130
Dibromochloromethane	20.0	17.00		ug/Kg		85	70 - 130
1,2-Dibromoethane (EDB)	20.0	16.76		ug/Kg		84	70 - 130
Dibromomethane	20.0	16.73		ug/Kg		84	70 - 130
1,2-Dichlorobenzene	20.0	18.16		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	19.23		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	20.0	18.44		ug/Kg		92	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.62	*-	ug/Kg		63	70 - 130
1,1-Dichloroethane	20.0	16.41		ug/Kg		82	70 - 130
1,2-Dichloroethane	20.0	16.94		ug/Kg		85	70 - 130
1,1-Dichloroethene	20.0	16.74		ug/Kg		84	70 - 130
cis-1,2-Dichloroethene	20.0	16.49		ug/Kg		82	70 - 130
trans-1,2-Dichloroethene	20.0	16.66		ug/Kg		83	70 - 130
1,2-Dichloropropane	20.0	17.13		ug/Kg		86	70 - 130
1,3-Dichloropropane	20.0	17.08		ug/Kg		85	70 - 130
2,2-Dichloropropane	20.0	16.59		ug/Kg		83	70 - 130
1,1-Dichloropropene	20.0	16.97		ug/Kg		85	70 - 130
cis-1,3-Dichloropropene	20.0	16.93		ug/Kg		85	70 - 130
trans-1,3-Dichloropropene	20.0	17.26		ug/Kg		86	70 - 130
Ethylbenzene	20.0	18.67		ug/Kg		93	70 - 130
Hexachlorobutadiene	20.0	18.52		ug/Kg		93	70 - 130
2-Hexanone (MBK)	20.0	17.63		ug/Kg		88	70 - 130
Isopropylbenzene	20.0	18.90		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	18.20		ug/Kg		91	70 - 130
Methyl tert-butyl ether	20.0	16.42		ug/Kg		82	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.03		ug/Kg		85	70 - 130
Methylene Chloride	20.0	16.31		ug/Kg		82	70 - 130
Naphthalene	20.0	18.21		ug/Kg		91	70 - 130
N-Propylbenzene	20.0	18.75		ug/Kg		94	70 - 130
Styrene	20.0	18.80		ug/Kg		94	70 - 130
1,1,1,2-Tetrachloroethane	20.0	18.67		ug/Kg		93	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.30		ug/Kg		86	70 - 130
Tetrachloroethene	20.0	17.57		ug/Kg		88	70 - 130
Toluene	20.0	18.14		ug/Kg		91	70 - 130

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

Lab Sample ID: LCS 620-6656/1-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 6641
Prep Batch: 6656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	20.0	17.72		ug/Kg		89	70 - 130
1,2,4-Trichlorobenzene	20.0	18.16		ug/Kg		91	70 - 130
1,3,5-Trichlorobenzene	20.0	16.95		ug/Kg		85	70 - 130
1,1,1-Trichloroethane	20.0	17.54		ug/Kg		88	70 - 130
1,1,2-Trichloroethane	20.0	17.05		ug/Kg		85	70 - 130
Trichloroethene	20.0	17.69		ug/Kg		88	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	16.58		ug/Kg		83	70 - 130
1,2,3-Trichloropropane	20.0	17.98		ug/Kg		90	70 - 130
1,2,4-Trimethylbenzene	20.0	19.38		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	20.0	19.10		ug/Kg		95	70 - 130
Vinyl chloride	20.0	15.81		ug/Kg		79	70 - 130
m,p-Xylene	20.0	18.38		ug/Kg		92	70 - 130
o-Xylene	20.0	18.44		ug/Kg		92	70 - 130
Tetrahydrofuran	20.0	16.13		ug/Kg		81	70 - 130
Ethyl ether	20.0	16.97		ug/Kg		85	70 - 130
Tert-amyl methyl ether	20.0	17.33		ug/Kg		87	70 - 130
Ethyl tert-butyl ether	20.0	16.73		ug/Kg		84	70 - 130
di-Isopropyl ether	20.0	17.01		ug/Kg		85	70 - 130
tert-Butanol	200	160.2		ug/Kg		80	70 - 130
1,4-Dioxane	200	167.6		ug/Kg		84	70 - 130
trans-1,4-Dichloro-2-butene	20.0	17.28	J	ug/Kg		86	70 - 130
Ethanol	400	388.3	J	ug/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 620-6656/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 6641
Prep Batch: 6656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.69		ug/Kg		83	70 - 130	1	30
Acetone	20.0	17.77	J	ug/Kg		89	70 - 130	1	30
Acrylonitrile	20.0	17.54		ug/Kg		88	70 - 130	2	30
Benzene	20.0	17.74		ug/Kg		89	70 - 130	2	30
Bromobenzene	20.0	17.97		ug/Kg		90	70 - 130	2	30
Bromochloromethane	20.0	17.26		ug/Kg		86	70 - 130	0	30
Bromodichloromethane	20.0	16.89		ug/Kg		84	70 - 130	1	30
Bromoform	20.0	18.21		ug/Kg		91	70 - 130	2	30
Bromomethane	20.0	14.88		ug/Kg		74	70 - 130	2	30
2-Butanone (MEK)	20.0	16.57		ug/Kg		83	70 - 130	2	30
n-Butylbenzene	20.0	16.55		ug/Kg		83	70 - 130	5	30
sec-Butylbenzene	20.0	18.81		ug/Kg		94	70 - 130	4	30
tert-Butylbenzene	20.0	18.08		ug/Kg		90	70 - 130	4	30

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

Lab Sample ID: LCSD 620-6656/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 6641
Prep Batch: 6656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	20.0	16.47		ug/Kg		82	70 - 130	2	30
Carbon tetrachloride	20.0	17.42		ug/Kg		87	70 - 130	3	30
Chlorobenzene	20.0	18.16		ug/Kg		91	70 - 130	2	30
Chloroethane	20.0	15.18		ug/Kg		76	70 - 130	5	30
Chloroform	20.0	16.90		ug/Kg		84	70 - 130	1	30
Chloromethane	20.0	14.83		ug/Kg		74	70 - 130	1	30
2-Chlorotoluene	20.0	16.83		ug/Kg		84	70 - 130	4	30
4-Chlorotoluene	20.0	17.81		ug/Kg		89	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	20.0	16.99		ug/Kg		85	70 - 130	1	30
Dibromochloromethane	20.0	16.89		ug/Kg		84	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	16.87		ug/Kg		84	70 - 130	1	30
Dibromomethane	20.0	16.65		ug/Kg		83	70 - 130	0	30
1,2-Dichlorobenzene	20.0	17.35		ug/Kg		87	70 - 130	5	30
1,3-Dichlorobenzene	20.0	19.03		ug/Kg		95	70 - 130	1	30
1,4-Dichlorobenzene	20.0	17.57		ug/Kg		88	70 - 130	5	30
Dichlorodifluoromethane (Freon 12)	20.0	12.39	*-	ug/Kg		62	70 - 130	2	30
1,1-Dichloroethane	20.0	16.58		ug/Kg		83	70 - 130	1	30
1,2-Dichloroethane	20.0	17.09		ug/Kg		85	70 - 130	1	30
1,1-Dichloroethene	20.0	16.35		ug/Kg		82	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	16.73		ug/Kg		84	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	16.88		ug/Kg		84	70 - 130	1	30
1,2-Dichloropropane	20.0	16.82		ug/Kg		84	70 - 130	2	30
1,3-Dichloropropane	20.0	17.16		ug/Kg		86	70 - 130	0	30
2,2-Dichloropropane	20.0	16.35		ug/Kg		82	70 - 130	1	30
1,1-Dichloropropene	20.0	16.76		ug/Kg		84	70 - 130	1	30
cis-1,3-Dichloropropene	20.0	16.75		ug/Kg		84	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	17.01		ug/Kg		85	70 - 130	1	30
Ethylbenzene	20.0	18.11		ug/Kg		91	70 - 130	3	30
Hexachlorobutadiene	20.0	17.37		ug/Kg		87	70 - 130	6	30
2-Hexanone (MBK)	20.0	17.40		ug/Kg		87	70 - 130	1	30
Isopropylbenzene	20.0	18.22		ug/Kg		91	70 - 130	4	30
4-Isopropyltoluene	20.0	17.41		ug/Kg		87	70 - 130	4	30
Methyl tert-butyl ether	20.0	16.79		ug/Kg		84	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	20.0	17.10		ug/Kg		86	70 - 130	0	30
Methylene Chloride	20.0	16.47		ug/Kg		82	70 - 130	1	30
Naphthalene	20.0	18.11		ug/Kg		91	70 - 130	1	30
N-Propylbenzene	20.0	17.87		ug/Kg		89	70 - 130	5	30
Styrene	20.0	18.13		ug/Kg		91	70 - 130	4	30
1,1,1,2-Tetrachloroethane	20.0	18.69		ug/Kg		93	70 - 130	0	30
1,1,2,2-Tetrachloroethane	20.0	17.39		ug/Kg		87	70 - 130	1	30
Tetrachloroethene	20.0	17.20		ug/Kg		86	70 - 130	2	30
Toluene	20.0	17.55		ug/Kg		88	70 - 130	3	30
1,2,3-Trichlorobenzene	20.0	17.13		ug/Kg		86	70 - 130	3	30
1,2,4-Trichlorobenzene	20.0	17.48		ug/Kg		87	70 - 130	4	30
1,3,5-Trichlorobenzene	20.0	15.95		ug/Kg		80	70 - 130	6	30
1,1,1-Trichloroethane	20.0	17.19		ug/Kg		86	70 - 130	2	30
1,1,2-Trichloroethane	20.0	17.07		ug/Kg		85	70 - 130	0	30
Trichloroethene	20.0	17.48		ug/Kg		87	70 - 130	1	30

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

Lab Sample ID: LCSD 620-6656/2-A
Matrix: Solid
Analysis Batch: 6641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane (Freon 11)			20.0	16.36		ug/Kg		82	70 - 130	1	30
1,2,3-Trichloropropane			20.0	18.14		ug/Kg		91	70 - 130	1	30
1,2,4-Trimethylbenzene			20.0	18.67		ug/Kg		93	70 - 130	4	30
1,3,5-Trimethylbenzene			20.0	18.61		ug/Kg		93	70 - 130	3	30
Vinyl chloride			20.0	15.50		ug/Kg		77	70 - 130	2	30
m,p-Xylene			20.0	18.21		ug/Kg		91	70 - 130	1	30
o-Xylene			20.0	18.10		ug/Kg		90	70 - 130	2	30
Tetrahydrofuran			20.0	17.51		ug/Kg		88	70 - 130	8	30
Ethyl ether			20.0	17.00		ug/Kg		85	70 - 130	0	30
Tert-amyl methyl ether			20.0	17.11		ug/Kg		86	70 - 130	1	30
Ethyl tert-butyl ether			20.0	16.85		ug/Kg		84	70 - 130	1	30
di-Isopropyl ether			20.0	16.93		ug/Kg		85	70 - 130	0	30
tert-Butanol			200	164.2		ug/Kg		82	70 - 130	2	30
1,4-Dioxane			200	173.5		ug/Kg		87	70 - 130	3	30
trans-1,4-Dichloro-2-butene			20.0	16.83	J	ug/Kg		84	70 - 130	3	30
Ethanol			400	333.8	J	ug/Kg		83	70 - 130	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 620-6795/1-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6795

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Acetone	ND		50.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Acrylonitrile	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Benzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Bromobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Bromochloromethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Bromodichloromethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Bromoform	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Bromomethane	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
2-Butanone (MEK)	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
n-Butylbenzene	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
sec-Butylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
tert-Butylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Carbon disulfide	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Carbon tetrachloride	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Chlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Chloroethane	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Chloroform	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Chloromethane	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1

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

Lab Sample ID: MB 620-6795/1-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6795

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
4-Chlorotoluene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Dibromochloromethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Dibromomethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1-Dichloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2-Dichloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1-Dichloroethene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2-Dichloropropane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,3-Dichloropropane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
2,2-Dichloropropane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1-Dichloropropene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Ethylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Hexachlorobutadiene	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Isopropylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
4-Isopropyltoluene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Methylene Chloride	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Naphthalene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
N-Propylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Styrene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Tetrachloroethene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Toluene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Trichloroethene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Vinyl chloride	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
m,p-Xylene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
o-Xylene	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1

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

Lab Sample ID: MB 620-6795/1-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6795

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Ethyl ether	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
di-Isopropyl ether	ND		5.00		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
tert-Butanol	ND		100		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
1,4-Dioxane	ND		100		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		12/22/21 14:24	12/22/21 13:18	1
Ethanol	ND		1000		ug/Kg		12/22/21 14:24	12/22/21 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/22/21 14:24*	*12/22/21 13:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/22/21 14:24*	*12/22/21 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*	*12/22/21 14:24*	*12/22/21 13:18*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*12/22/21 14:24*	*12/22/21 13:18*	*1*

Lab Sample ID: LCS 620-6795/2-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.26		ug/Kg		91	70 - 130
Acetone	20.0	18.52	J	ug/Kg		93	70 - 130
Acrylonitrile	20.0	18.22		ug/Kg		91	70 - 130
Benzene	20.0	19.27		ug/Kg		96	70 - 130
Bromobenzene	20.0	20.48		ug/Kg		102	70 - 130
Bromochloromethane	20.0	18.71		ug/Kg		94	70 - 130
Bromodichloromethane	20.0	18.22		ug/Kg		91	70 - 130
Bromoform	20.0	19.17		ug/Kg		96	70 - 130
Bromomethane	20.0	15.48		ug/Kg		77	70 - 130
2-Butanone (MEK)	20.0	17.67		ug/Kg		88	70 - 130
n-Butylbenzene	20.0	19.57		ug/Kg		98	70 - 130
sec-Butylbenzene	20.0	20.87		ug/Kg		104	70 - 130
tert-Butylbenzene	20.0	20.71		ug/Kg		104	70 - 130
Carbon disulfide	20.0	17.99		ug/Kg		90	70 - 130
Carbon tetrachloride	20.0	19.14		ug/Kg		96	70 - 130
Chlorobenzene	20.0	20.07		ug/Kg		100	70 - 130
Chloroethane	20.0	15.71		ug/Kg		79	70 - 130
Chloroform	20.0	18.18		ug/Kg		91	70 - 130
Chloromethane	20.0	16.09		ug/Kg		80	70 - 130
2-Chlorotoluene	20.0	20.06		ug/Kg		100	70 - 130
4-Chlorotoluene	20.0	20.40		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.72		ug/Kg		94	70 - 130
Dibromochloromethane	20.0	18.29		ug/Kg		91	70 - 130
1,2-Dibromoethane (EDB)	20.0	18.25		ug/Kg		91	70 - 130
Dibromomethane	20.0	17.75		ug/Kg		89	70 - 130
1,2-Dichlorobenzene	20.0	20.40		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	20.0	21.32		ug/Kg		107	70 - 130

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

Lab Sample ID: LCS 620-6795/2-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	20.0	20.60		ug/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	14.33		ug/Kg		72	70 - 130
1,1-Dichloroethane	20.0	17.85		ug/Kg		89	70 - 130
1,2-Dichloroethane	20.0	17.77		ug/Kg		89	70 - 130
1,1-Dichloroethene	20.0	18.09		ug/Kg		90	70 - 130
cis-1,2-Dichloroethene	20.0	18.64		ug/Kg		93	70 - 130
trans-1,2-Dichloroethene	20.0	18.83		ug/Kg		94	70 - 130
1,2-Dichloropropane	20.0	18.17		ug/Kg		91	70 - 130
1,3-Dichloropropane	20.0	18.68		ug/Kg		93	70 - 130
2,2-Dichloropropane	20.0	18.75		ug/Kg		94	70 - 130
1,1-Dichloropropene	20.0	18.78		ug/Kg		94	70 - 130
cis-1,3-Dichloropropene	20.0	18.68		ug/Kg		93	70 - 130
trans-1,3-Dichloropropene	20.0	18.73		ug/Kg		94	70 - 130
Ethylbenzene	20.0	20.06		ug/Kg		100	70 - 130
Hexachlorobutadiene	20.0	21.56		ug/Kg		108	70 - 130
2-Hexanone (MBK)	20.0	19.03		ug/Kg		95	70 - 130
Isopropylbenzene	20.0	20.75		ug/Kg		104	70 - 130
4-Isopropyltoluene	20.0	20.54		ug/Kg		103	70 - 130
Methyl tert-butyl ether	20.0	18.39		ug/Kg		92	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.12		ug/Kg		91	70 - 130
Methylene Chloride	20.0	18.41		ug/Kg		92	70 - 130
Naphthalene	20.0	20.46		ug/Kg		102	70 - 130
N-Propylbenzene	20.0	20.43		ug/Kg		102	70 - 130
Styrene	20.0	20.40		ug/Kg		102	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.09		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.49		ug/Kg		92	70 - 130
Tetrachloroethene	20.0	20.17		ug/Kg		101	70 - 130
Toluene	20.0	19.58		ug/Kg		98	70 - 130
1,2,3-Trichlorobenzene	20.0	20.87		ug/Kg		104	70 - 130
1,2,4-Trichlorobenzene	20.0	21.22		ug/Kg		106	70 - 130
1,3,5-Trichlorobenzene	20.0	20.41		ug/Kg		102	70 - 130
1,1,1-Trichloroethane	20.0	19.00		ug/Kg		95	70 - 130
1,1,2-Trichloroethane	20.0	18.27		ug/Kg		91	70 - 130
Trichloroethene	20.0	19.01		ug/Kg		95	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	17.22		ug/Kg		86	70 - 130
1,2,3-Trichloropropane	20.0	18.29		ug/Kg		91	70 - 130
1,2,4-Trimethylbenzene	20.0	20.79		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	20.0	20.45		ug/Kg		102	70 - 130
Vinyl chloride	20.0	16.26		ug/Kg		81	70 - 130
m,p-Xylene	20.0	20.03		ug/Kg		100	70 - 130
o-Xylene	20.0	20.07		ug/Kg		100	70 - 130
Tetrahydrofuran	20.0	17.79		ug/Kg		89	70 - 130
Ethyl ether	20.0	17.66		ug/Kg		88	70 - 130
Tert-amyl methyl ether	20.0	18.92		ug/Kg		95	70 - 130
Ethyl tert-butyl ether	20.0	18.27		ug/Kg		91	70 - 130
di-Isopropyl ether	20.0	17.98		ug/Kg		90	70 - 130
tert-Butanol	200	176.8		ug/Kg		88	70 - 130

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

Lab Sample ID: LCS 620-6795/2-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	200	182.5		ug/Kg		91	70 - 130
trans-1,4-Dichloro-2-butene	20.0	18.24	J	ug/Kg		91	70 - 130
Ethanol	400	349.6	J	ug/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 620-6795/3-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.45		ug/Kg		92	70 - 130	1	30
Acetone	20.0	18.41	J	ug/Kg		92	70 - 130	1	30
Acrylonitrile	20.0	18.01		ug/Kg		90	70 - 130	1	30
Benzene	20.0	19.34		ug/Kg		97	70 - 130	0	30
Bromobenzene	20.0	20.08		ug/Kg		100	70 - 130	2	30
Bromochloromethane	20.0	18.76		ug/Kg		94	70 - 130	0	30
Bromodichloromethane	20.0	18.12		ug/Kg		91	70 - 130	1	30
Bromoform	20.0	19.15		ug/Kg		96	70 - 130	0	30
Bromomethane	20.0	15.46		ug/Kg		77	70 - 130	0	30
2-Butanone (MEK)	20.0	17.64		ug/Kg		88	70 - 130	0	30
n-Butylbenzene	20.0	19.15		ug/Kg		96	70 - 130	2	30
sec-Butylbenzene	20.0	20.65		ug/Kg		103	70 - 130	1	30
tert-Butylbenzene	20.0	20.41		ug/Kg		102	70 - 130	1	30
Carbon disulfide	20.0	17.81		ug/Kg		89	70 - 130	1	30
Carbon tetrachloride	20.0	18.91		ug/Kg		95	70 - 130	1	30
Chlorobenzene	20.0	20.10		ug/Kg		101	70 - 130	0	30
Chloroethane	20.0	16.08		ug/Kg		80	70 - 130	2	30
Chloroform	20.0	18.28		ug/Kg		91	70 - 130	1	30
Chloromethane	20.0	16.28		ug/Kg		81	70 - 130	1	30
2-Chlorotoluene	20.0	19.98		ug/Kg		100	70 - 130	0	30
4-Chlorotoluene	20.0	20.15		ug/Kg		101	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	20.0	18.28		ug/Kg		91	70 - 130	2	30
Dibromochloromethane	20.0	18.25		ug/Kg		91	70 - 130	0	30
1,2-Dibromoethane (EDB)	20.0	18.42		ug/Kg		92	70 - 130	1	30
Dibromomethane	20.0	17.60		ug/Kg		88	70 - 130	1	30
1,2-Dichlorobenzene	20.0	20.36		ug/Kg		102	70 - 130	0	30
1,3-Dichlorobenzene	20.0	21.21		ug/Kg		106	70 - 130	1	30
1,4-Dichlorobenzene	20.0	20.40		ug/Kg		102	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	20.0	14.31		ug/Kg		72	70 - 130	0	30
1,1-Dichloroethane	20.0	18.19		ug/Kg		91	70 - 130	2	30
1,2-Dichloroethane	20.0	18.00		ug/Kg		90	70 - 130	1	30
1,1-Dichloroethene	20.0	18.05		ug/Kg		90	70 - 130	0	30

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

Lab Sample ID: LCSD 620-6795/3-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	18.77		ug/Kg		94	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	18.65		ug/Kg		93	70 - 130	1	30
1,2-Dichloropropane	20.0	18.05		ug/Kg		90	70 - 130	1	30
1,3-Dichloropropane	20.0	18.59		ug/Kg		93	70 - 130	0	30
2,2-Dichloropropane	20.0	18.77		ug/Kg		94	70 - 130	0	30
1,1-Dichloropropene	20.0	18.73		ug/Kg		94	70 - 130	0	30
cis-1,3-Dichloropropene	20.0	18.70		ug/Kg		94	70 - 130	0	30
trans-1,3-Dichloropropene	20.0	18.57		ug/Kg		93	70 - 130	1	30
Ethylbenzene	20.0	20.11		ug/Kg		101	70 - 130	0	30
Hexachlorobutadiene	20.0	21.13		ug/Kg		106	70 - 130	2	30
2-Hexanone (MBK)	20.0	18.47		ug/Kg		92	70 - 130	3	30
Isopropylbenzene	20.0	20.63		ug/Kg		103	70 - 130	1	30
4-Isopropyltoluene	20.0	20.17		ug/Kg		101	70 - 130	2	30
Methyl tert-butyl ether	20.0	17.87		ug/Kg		89	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	20.0	17.76		ug/Kg		89	70 - 130	2	30
Methylene Chloride	20.0	18.73		ug/Kg		94	70 - 130	2	30
Naphthalene	20.0	20.45		ug/Kg		102	70 - 130	0	30
N-Propylbenzene	20.0	20.07		ug/Kg		100	70 - 130	2	30
Styrene	20.0	20.21		ug/Kg		101	70 - 130	1	30
1,1,1,2-Tetrachloroethane	20.0	20.15		ug/Kg		101	70 - 130	0	30
1,1,2,2-Tetrachloroethane	20.0	18.02		ug/Kg		90	70 - 130	3	30
Tetrachloroethene	20.0	20.20		ug/Kg		101	70 - 130	0	30
Toluene	20.0	19.51		ug/Kg		98	70 - 130	0	30
1,2,3-Trichlorobenzene	20.0	20.71		ug/Kg		104	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	21.19		ug/Kg		106	70 - 130	0	30
1,3,5-Trichlorobenzene	20.0	20.15		ug/Kg		101	70 - 130	1	30
1,1,1-Trichloroethane	20.0	18.77		ug/Kg		94	70 - 130	1	30
1,1,2-Trichloroethane	20.0	18.12		ug/Kg		91	70 - 130	1	30
Trichloroethene	20.0	18.98		ug/Kg		95	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	20.0	17.11		ug/Kg		86	70 - 130	1	30
1,2,3-Trichloropropane	20.0	18.21		ug/Kg		91	70 - 130	0	30
1,2,4-Trimethylbenzene	20.0	20.53		ug/Kg		103	70 - 130	1	30
1,3,5-Trimethylbenzene	20.0	20.43		ug/Kg		102	70 - 130	0	30
Vinyl chloride	20.0	16.11		ug/Kg		81	70 - 130	1	30
m,p-Xylene	20.0	20.09		ug/Kg		100	70 - 130	0	30
o-Xylene	20.0	20.19		ug/Kg		101	70 - 130	1	30
Tetrahydrofuran	20.0	16.23		ug/Kg		81	70 - 130	9	30
Ethyl ether	20.0	17.70		ug/Kg		88	70 - 130	0	30
Tert-amyl methyl ether	20.0	18.82		ug/Kg		94	70 - 130	1	30
Ethyl tert-butyl ether	20.0	18.38		ug/Kg		92	70 - 130	1	30
di-Isopropyl ether	20.0	17.99		ug/Kg		90	70 - 130	0	30
tert-Butanol	200	169.3		ug/Kg		85	70 - 130	4	30
1,4-Dioxane	200	183.9		ug/Kg		92	70 - 130	1	30
trans-1,4-Dichloro-2-butene	20.0	17.59	J	ug/Kg		88	70 - 130	4	30
Ethanol	400	373.2	J	ug/Kg		93	70 - 130	7	30

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

Lab Sample ID: LCSD 620-6795/3-A
Matrix: Solid
Analysis Batch: 6781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6795

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: MB 620-6791/1-A
Matrix: Solid
Analysis Batch: 6822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6791

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.3		mg/Kg		12/22/21 12:07	12/23/21 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*79*		*40 - 140*	*12/22/21 12:07*	*12/23/21 09:25*	*1*
o-Terphenyl (Surr)	*70*		*40 - 140*	*12/22/21 12:07*	*12/23/21 09:25*	*1*

Lab Sample ID: LCS 620-6791/2-A
Matrix: Solid
Analysis Batch: 6822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6791

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TEPH (C9-C36)			333	194.0		mg/Kg		58	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*74*		*40 - 140*
o-Terphenyl (Surr)	*66*		*40 - 140*

Lab Sample ID: LCSD 620-6791/3-A
Matrix: Solid
Analysis Batch: 6822

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6791

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TEPH (C9-C36)			333	193.3		mg/Kg		58	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*81*		*40 - 140*
o-Terphenyl (Surr)	*64*		*40 - 140*

Method: Local Method 8260 - VOC by 8260

Lab Sample ID: CK04613-BLK
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK04613-BLK
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,1,2-Trichloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,1-Dichloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,1-Dichloroethene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,1-Dichloropropene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2,3-Trichlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2,3-Trichloropropane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2,4-Trichlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2,4-Trimethylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2-Dibromo-3-chloropropane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2-Dibromoethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2-Dichlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2-Dichloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,2-Dichloropropane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,3,5-Trimethylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,3-Dichlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,3-Dichloropropane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
1,4-Dichlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
2,2-Dichloropropane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
2-Chlorotoluene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
2-Hexanone	ND		25		ug/kg		12/29/21 09:26	12/29/21 09:26	1
2-Isopropyltoluene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
4-Chlorotoluene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
4-Methyl-2-pentanone	ND		25		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Acetone	ND		10		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Acrylonitrile	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Benzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Bromobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Bromochloromethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Bromodichloromethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Bromoform	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Bromomethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Carbon Disulfide	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Carbon tetrachloride	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Chlorobenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Chloroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Chloroform	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Chloromethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
cis-1,2-Dichloroethene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
cis-1,3-Dichloropropene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Dibromochloromethane	ND		3.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Dibromomethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Dichlorodifluoromethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Ethylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Hexachlorobutadiene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Isopropylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
m&p-Xylene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Methyl Ethyl Ketone	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK04613-BLK
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl t-butyl ether (MTBE)	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Methylene chloride	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Naphthalene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
n-Butylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
n-Propylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
o-Xylene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
p-Isopropyltoluene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
sec-Butylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Styrene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
tert-Butylbenzene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Tetrachloroethene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Tetrahydrofuran (THF)	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Toluene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
trans-1,2-Dichloroethene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
trans-1,3-Dichloropropene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
trans-1,4-dichloro-2-butene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Trichloroethene	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Trichlorofluoromethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Trichlorotrifluoroethane	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1
Vinyl chloride	ND		5.0		ug/kg		12/29/21 09:26	12/29/21 09:26	1

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*100*		*70 - 130*	*12/29/21 09:26*	*12/29/21 09:26*	*1*
% Bromofluorobenzene	*98*		*70 - 130*	*12/29/21 09:26*	*12/29/21 09:26*	*1*
% Dibromofluoromethane	*97*		*70 - 130*	*12/29/21 09:26*	*12/29/21 09:26*	*1*
% Toluene-d8	*98*		*70 - 130*	*12/29/21 09:26*	*12/29/21 09:26*	*1*

Lab Sample ID: CK04613-LCS
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50	55.12		ug/kg		110	70 - 130
1,1,1-Trichloroethane	50	55.42		ug/kg		111	70 - 130
1,1,2,2-Tetrachloroethane	50	52.62		ug/kg		105	70 - 130
1,1,2-Trichloroethane	50	54.35		ug/kg		109	70 - 130
1,1-Dichloroethane	50	54.35		ug/kg		109	70 - 130
1,1-Dichloroethene	50	34.02	I	ug/kg		68	70 - 130
1,1-Dichloropropene	50	50.42		ug/kg		101	70 - 130
1,2,3-Trichlorobenzene	50	55.62		ug/kg		111	70 - 130
1,2,3-Trichloropropane	50	50.45		ug/kg		101	70 - 130
1,2,4-Trichlorobenzene	50	57.37		ug/kg		115	70 - 130
1,2,4-Trimethylbenzene	50	53.97		ug/kg		108	70 - 130
1,2-Dibromo-3-chloropropane	50	55.11		ug/kg		110	70 - 130
1,2-Dibromoethane	50	54.37		ug/kg		109	70 - 130
1,2-Dichlorobenzene	50	53.55		ug/kg		107	70 - 130
1,2-Dichloroethane	50	52.23		ug/kg		104	70 - 130
1,2-Dichloropropane	50	54.56		ug/kg		109	70 - 130

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK04613-LCS
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	50	54.85		ug/kg		110	70 - 130
1,3-Dichlorobenzene	50	52.90		ug/kg		106	70 - 130
1,3-Dichloropropane	50	53.05		ug/kg		106	70 - 130
1,4-Dichlorobenzene	50	53.93		ug/kg		108	70 - 130
2,2-Dichloropropane	50	65.64	I	ug/kg		131	70 - 130
2-Chlorotoluene	50	54.26		ug/kg		109	70 - 130
2-Hexanone	50	48.60		ug/kg		97	70 - 130
2-Isopropyltoluene	50	53.32		ug/kg		107	70 - 130
4-Chlorotoluene	50	54.35		ug/kg		109	70 - 130
4-Methyl-2-pentanone	50	54.41		ug/kg		109	70 - 130
Acetone	50	32.95	I	ug/kg		66	70 - 130
Acrylonitrile	50	54.10		ug/kg		108	70 - 130
Benzene	50	47.79		ug/kg		96	70 - 130
Bromobenzene	50	52.02		ug/kg		104	70 - 130
Bromochloromethane	50	56.16		ug/kg		112	70 - 130
Bromodichloromethane	50	54.03		ug/kg		108	70 - 130
Bromoform	50	54.05		ug/kg		108	70 - 130
Bromomethane	50	40.42		ug/kg		81	70 - 130
Carbon Disulfide	50	30.88	I	ug/kg		62	70 - 130
Carbon tetrachloride	50	52.77		ug/kg		106	70 - 130
Chlorobenzene	50	53.07		ug/kg		106	70 - 130
Chloroethane	50	17.19	I	ug/kg		34	70 - 130
Chloroform	50	52.69		ug/kg		105	70 - 130
Chloromethane	50	47.63		ug/kg		95	70 - 130
cis-1,2-Dichloroethene	50	54.97		ug/kg		110	70 - 130
cis-1,3-Dichloropropene	50	62.28		ug/kg		125	70 - 130
Dibromochloromethane	50	53.60		ug/kg		107	70 - 130
Dibromomethane	50	52.79		ug/kg		106	70 - 130
Dichlorodifluoromethane	50	41.20		ug/kg		82	70 - 130
Ethylbenzene	50	55.07		ug/kg		110	70 - 130
Hexachlorobutadiene	50	55.54		ug/kg		111	70 - 130
Isopropylbenzene	50	53.75		ug/kg		107	70 - 130
m&p-Xylene	100	109.7		ug/kg		110	70 - 130
Methyl Ethyl Ketone	50	41.31		ug/kg		83	70 - 130
Methyl t-butyl ether (MTBE)	50	57.68		ug/kg		115	70 - 130
Methylene chloride	50	42.62		ug/kg		85	70 - 130
Naphthalene	50	56.59		ug/kg		113	70 - 130
n-Butylbenzene	50	56.77		ug/kg		114	70 - 130
n-Propylbenzene	50	54.43		ug/kg		109	70 - 130
o-Xylene	50	55.58		ug/kg		111	70 - 130
p-Isopropyltoluene	50	55.32		ug/kg		111	70 - 130
sec-Butylbenzene	50	54.11		ug/kg		108	70 - 130
Styrene	50	55.80		ug/kg		112	70 - 130
tert-Butylbenzene	50	53.36		ug/kg		107	70 - 130
Tetrachloroethene	50	56.18		ug/kg		112	70 - 130
Tetrahydrofuran (THF)	125	124.7		ug/kg		100	70 - 130
Toluene	50	56.27		ug/kg		113	70 - 130
trans-1,2-Dichloroethene	50	53.05		ug/kg		106	70 - 130
trans-1,3-Dichloropropene	50	64.86		ug/kg		130	70 - 130

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK04613-LCS
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,4-dichloro-2-butene			250	366.0	I	ug/kg		146	70 - 130		
Trichloroethene			50	54.85		ug/kg		110	70 - 130		
Trichlorofluoromethane			50	15.21	I	ug/kg		30	70 - 130		
Trichlorotrifluoroethane			50	32.50	I	ug/kg		65	70 - 130		
Vinyl chloride			50	55.49		ug/kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
% 1,2-dichlorobenzene-d4	*99*		*70 - 130*
% Bromofluorobenzene	*101*		*70 - 130*
% Dibromofluoromethane	*102*		*70 - 130*
% Toluene-d8	*102*		*70 - 130*

Lab Sample ID: CK04613-LCSD
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50	55.38		ug/kg		111	70 - 130	0.9	30
1,1,1-Trichloroethane			50	53.58		ug/kg		107	70 - 130	3.7	30
1,1,2,2-Tetrachloroethane			50	53.30		ug/kg		107	70 - 130	1.9	30
1,1,2-Trichloroethane			50	53.97		ug/kg		108	70 - 130	0.9	30
1,1-Dichloroethane			50	55.82		ug/kg		112	70 - 130	2.7	30
1,1-Dichloroethene			50	31.92	I	ug/kg		64	70 - 130	6.1	30
1,1-Dichloropropene			50	47.54		ug/kg		95	70 - 130	6.1	30
1,2,3-Trichlorobenzene			50	55.84		ug/kg		112	70 - 130	0.9	30
1,2,3-Trichloropropane			50	51.47		ug/kg		103	70 - 130	2.0	30
1,2,4-Trichlorobenzene			50	56.17		ug/kg		112	70 - 130	2.6	30
1,2,4-Trimethylbenzene			50	53.36		ug/kg		107	70 - 130	0.9	30
1,2-Dibromo-3-chloropropane			50	55.32		ug/kg		111	70 - 130	0.9	30
1,2-Dibromoethane			50	55.52		ug/kg		111	70 - 130	1.8	30
1,2-Dichlorobenzene			50	53.57		ug/kg		107	70 - 130	0.0	30
1,2-Dichloroethane			50	51.57		ug/kg		103	70 - 130	1.0	30
1,2-Dichloropropane			50	53.66		ug/kg		107	70 - 130	1.9	30
1,3,5-Trimethylbenzene			50	54.50		ug/kg		109	70 - 130	0.9	30
1,3-Dichlorobenzene			50	52.41		ug/kg		105	70 - 130	0.9	30
1,3-Dichloropropane			50	55.27		ug/kg		111	70 - 130	4.6	30
1,4-Dichlorobenzene			50	53.47		ug/kg		107	70 - 130	0.9	30
2,2-Dichloropropane			50	65.84	I	ug/kg		132	70 - 130	0.8	30
2-Chlorotoluene			50	53.51		ug/kg		107	70 - 130	1.9	30
2-Hexanone			50	51.97		ug/kg		104	70 - 130	7.0	30
2-Isopropyltoluene			50	52.81		ug/kg		106	70 - 130	0.9	30
4-Chlorotoluene			50	53.92		ug/kg		108	70 - 130	0.9	30
4-Methyl-2-pentanone			50	55.34		ug/kg		111	70 - 130	1.8	30
Acetone			50	31.45	I	ug/kg		63	70 - 130	4.7	30
Acrylonitrile			50	56.12		ug/kg		112	70 - 130	3.6	30
Benzene			50	45.73		ug/kg		91	70 - 130	5.3	30
Bromobenzene			50	52.29		ug/kg		105	70 - 130	1.0	30
Bromochloromethane			50	55.71		ug/kg		111	70 - 130	0.9	30

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK04613-LCSD
Matrix: SOLID
Analysis Batch: 606488A

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606488A_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane			50	51.97		ug/kg		104	70 - 130	3.8	30
Bromoform			50	53.65		ug/kg		107	70 - 130	0.9	30
Bromomethane			50	39.82		ug/kg		80	70 - 130	1.2	30
Carbon Disulfide			50	29.88	I	ug/kg		60	70 - 130	3.3	30
Carbon tetrachloride			50	50.73		ug/kg		101	70 - 130	4.8	30
Chlorobenzene			50	53.56		ug/kg		107	70 - 130	0.9	30
Chloroethane			50	16.33	I	ug/kg		33	70 - 130	3.0	30
Chloroform			50	49.89		ug/kg		100	70 - 130	4.9	30
Chloromethane			50	48.84		ug/kg		98	70 - 130	3.1	30
cis-1,2-Dichloroethene			50	59.59		ug/kg		119	70 - 130	7.9	30
cis-1,3-Dichloropropene			50	60.69		ug/kg		121	70 - 130	3.3	30
Dibromochloromethane			50	52.56		ug/kg		105	70 - 130	1.9	30
Dibromomethane			50	53.72		ug/kg		107	70 - 130	0.9	30
Dichlorodifluoromethane			50	42.36		ug/kg		85	70 - 130	3.6	30
Ethylbenzene			50	55.32		ug/kg		111	70 - 130	0.9	30
Hexachlorobutadiene			50	55.26		ug/kg		111	70 - 130	0.0	30
Isopropylbenzene			50	53.41		ug/kg		107	70 - 130	0.0	30
m&p-Xylene			100	110.2		ug/kg		110	70 - 130	0.0	30
Methyl Ethyl Ketone			50	43.05		ug/kg		86	70 - 130	3.6	30
Methyl t-butyl ether (MTBE)			50	58.60		ug/kg		117	70 - 130	1.7	30
Methylene chloride			50	41.99		ug/kg		84	70 - 130	1.2	30
Naphthalene			50	58.11		ug/kg		116	70 - 130	2.6	30
n-Butylbenzene			50	55.27		ug/kg		111	70 - 130	2.7	30
n-Propylbenzene			50	52.77		ug/kg		106	70 - 130	2.8	30
o-Xylene			50	55.60		ug/kg		111	70 - 130	0.0	30
p-Isopropyltoluene			50	54.53		ug/kg		109	70 - 130	1.8	30
sec-Butylbenzene			50	53.12		ug/kg		106	70 - 130	1.9	30
Styrene			50	57.01		ug/kg		114	70 - 130	1.8	30
tert-Butylbenzene			50	52.82		ug/kg		106	70 - 130	0.9	30
Tetrachloroethene			50	54.33		ug/kg		109	70 - 130	2.7	30
Tetrahydrofuran (THF)			125	127.9		ug/kg		102	70 - 130	2.0	30
Toluene			50	53.64		ug/kg		107	70 - 130	5.5	30
trans-1,2-Dichloroethene			50	54.06		ug/kg		108	70 - 130	1.9	30
trans-1,3-Dichloropropene			50	65.13		ug/kg		130	70 - 130	0.0	30
trans-1,4-dichloro-2-butene			250	370.5	I	ug/kg		148	70 - 130	1.4	30
Trichloroethene			50	52.76		ug/kg		106	70 - 130	3.7	30
Trichlorofluoromethane			50	14.83	I	ug/kg		30	70 - 130	0.0	30
Trichlorotrifluoroethane			50	32.96	I	ug/kg		66	70 - 130	1.5	30
Vinyl chloride			50	55.96		ug/kg		112	70 - 130	0.9	30

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
% 1,2-dichlorobenzene-d4	*100*		*70 - 130*
% Bromofluorobenzene	*103*		*70 - 130*
% Dibromofluoromethane	*101*		*70 - 130*
% Toluene-d8	*99*		*70 - 130*

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK07115-BLK
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1,1-Trichloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1,2-Trichloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1-Dichloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1-Dichloroethene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,1-Dichloropropene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2,3-Trichloropropane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2,4-Trimethylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2-Dibromo-3-chloropropane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2-Dibromoethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2-Dichlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2-Dichloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,2-Dichloropropane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,3-Dichlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,3-Dichloropropane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
1,4-Dichlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
2,2-Dichloropropane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
2-Chlorotoluene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
2-Hexanone	ND		25		ug/kg		01/04/22 11:52	01/04/22 11:52	1
2-Isopropyltoluene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
4-Chlorotoluene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
4-Methyl-2-pentanone	ND		25		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Acetone	ND		10		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Acrylonitrile	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Benzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Bromobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Bromochloromethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Bromodichloromethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Bromoform	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Bromomethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Carbon Disulfide	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Carbon tetrachloride	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Chlorobenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Chloroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Chloroform	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Chloromethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Dibromochloromethane	ND		3.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Dibromomethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Dichlorodifluoromethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Ethylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Hexachlorobutadiene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Isopropylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK07115-BLK
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m&p-Xylene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Methyl Ethyl Ketone	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Methyl t-butyl ether (MTBE)	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Methylene chloride	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Naphthalene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
n-Butylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
n-Propylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
o-Xylene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
p-Isopropyltoluene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
sec-Butylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Styrene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
tert-Butylbenzene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Tetrachloroethene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Tetrahydrofuran (THF)	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Toluene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
trans-1,2-Dichloroethene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
trans-1,4-dichloro-2-butene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Trichloroethene	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Trichlorofluoromethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Trichlorotrifluoroethane	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1
Vinyl chloride	ND		5.0		ug/kg		01/04/22 11:52	01/04/22 11:52	1

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
% 1,2-dichlorobenzene-d4	*96*		*70 - 130*	*01/04/22 11:52*	*01/04/22 11:52*	*1*
% Bromofluorobenzene	*101*		*70 - 130*	*01/04/22 11:52*	*01/04/22 11:52*	*1*
% Dibromofluoromethane	*91*		*70 - 130*	*01/04/22 11:52*	*01/04/22 11:52*	*1*
% Toluene-d8	*97*		*70 - 130*	*01/04/22 11:52*	*01/04/22 11:52*	*1*

Lab Sample ID: CK07115-LCS
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50	48.62		ug/kg		97	70 - 130
1,1,1-Trichloroethane	50	57.11		ug/kg		114	70 - 130
1,1,2,2-Tetrachloroethane	50	48.76		ug/kg		98	70 - 130
1,1,2-Trichloroethane	50	51.37		ug/kg		103	70 - 130
1,1-Dichloroethane	50	53.60		ug/kg		107	70 - 130
1,1-Dichloroethene	50	50.59		ug/kg		101	70 - 130
1,1-Dichloropropene	50	56.08		ug/kg		112	70 - 130
1,2,3-Trichlorobenzene	50	59.55		ug/kg		119	70 - 130
1,2,3-Trichloropropane	50	50.23		ug/kg		100	70 - 130
1,2,4-Trichlorobenzene	50	60.60		ug/kg		121	70 - 130
1,2,4-Trimethylbenzene	50	53.77		ug/kg		108	70 - 130
1,2-Dibromo-3-chloropropane	50	48.96		ug/kg		98	70 - 130
1,2-Dibromoethane	50	49.60		ug/kg		99	70 - 130
1,2-Dichlorobenzene	50	53.41		ug/kg		107	70 - 130

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK07115-LCS
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50	56.07		ug/kg		112	70 - 130
1,2-Dichloropropane	50	53.84		ug/kg		108	70 - 130
1,3,5-Trimethylbenzene	50	53.52		ug/kg		107	70 - 130
1,3-Dichlorobenzene	50	54.32		ug/kg		109	70 - 130
1,3-Dichloropropane	50	51.77		ug/kg		104	70 - 130
1,4-Dichlorobenzene	50	54.36		ug/kg		109	70 - 130
2,2-Dichloropropane	50	56.60		ug/kg		113	70 - 130
2-Chlorotoluene	50	53.84		ug/kg		108	70 - 130
2-Hexanone	50	44.28		ug/kg		89	70 - 130
2-Isopropyltoluene	50	53.75		ug/kg		108	70 - 130
4-Chlorotoluene	50	54.60		ug/kg		109	70 - 130
4-Methyl-2-pentanone	50	49.04		ug/kg		98	70 - 130
Acetone	50	40.88		ug/kg		82	70 - 130
Acrylonitrile	50	47.21		ug/kg		94	70 - 130
Benzene	50	53.56		ug/kg		107	70 - 130
Bromobenzene	50	53.22		ug/kg		106	70 - 130
Bromochloromethane	50	49.50		ug/kg		99	70 - 130
Bromodichloromethane	50	51.95		ug/kg		104	70 - 130
Bromoform	50	41.73		ug/kg		83	70 - 130
Bromomethane	50	44.20		ug/kg		88	70 - 130
Carbon Disulfide	50	46.21		ug/kg		92	70 - 130
Carbon tetrachloride	50	53.21		ug/kg		106	70 - 130
Chlorobenzene	50	52.78		ug/kg		106	70 - 130
Chloroethane	50	23.47	I	ug/kg		47	70 - 130
Chloroform	50	53.32		ug/kg		107	70 - 130
Chloromethane	50	55.13		ug/kg		110	70 - 130
cis-1,2-Dichloroethene	50	53.98		ug/kg		108	70 - 130
cis-1,3-Dichloropropene	50	54.05		ug/kg		108	70 - 130
Dibromochloromethane	50	47.34		ug/kg		95	70 - 130
Dibromomethane	50	54.04		ug/kg		108	70 - 130
Dichlorodifluoromethane	50	60.82		ug/kg		122	70 - 130
Ethylbenzene	50	52.59		ug/kg		105	70 - 130
Hexachlorobutadiene	50	58.46		ug/kg		117	70 - 130
Isopropylbenzene	50	53.26		ug/kg		107	70 - 130
m&p-Xylene	100	105.6		ug/kg		106	70 - 130
Methyl Ethyl Ketone	50	47.35		ug/kg		95	70 - 130
Methyl t-butyl ether (MTBE)	50	52.64		ug/kg		105	70 - 130
Methylene chloride	50	45.91		ug/kg		92	70 - 130
Naphthalene	50	54.47		ug/kg		109	70 - 130
n-Butylbenzene	50	59.86		ug/kg		120	70 - 130
n-Propylbenzene	50	54.80		ug/kg		110	70 - 130
o-Xylene	50	51.56		ug/kg		103	70 - 130
p-Isopropyltoluene	50	55.36		ug/kg		111	70 - 130
sec-Butylbenzene	50	54.93		ug/kg		110	70 - 130
Styrene	50	52.01		ug/kg		104	70 - 130
tert-Butylbenzene	50	53.71		ug/kg		107	70 - 130
Tetrachloroethene	50	55.52		ug/kg		111	70 - 130
Tetrahydrofuran (THF)	125	121.4		ug/kg		97	70 - 130
Toluene	50	54.26		ug/kg		109	70 - 130

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK07115-LCS
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,2-Dichloroethene			50	52.60		ug/kg		105	70 - 130		
trans-1,3-Dichloropropene			50	53.50		ug/kg		107	70 - 130		
trans-1,4-dichloro-2-butene			250	234.8		ug/kg		94	70 - 130		
Trichloroethene			50	53.35		ug/kg		107	70 - 130		
Trichlorofluoromethane			50	27.76	I	ug/kg		56	70 - 130		
Trichlorotrifluoroethane			50	47.37		ug/kg		95	70 - 130		
Vinyl chloride			50	60.30		ug/kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
% 1,2-dichlorobenzene-d4	*99*		*70 - 130*
% Bromofluorobenzene	*99*		*70 - 130*
% Dibromofluoromethane	*96*		*70 - 130*
% Toluene-d8	*103*		*70 - 130*

Lab Sample ID: CK07115-LCSD
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50	49.82		ug/kg		100	70 - 130	3.0	30
1,1,1-Trichloroethane			50	55.66		ug/kg		111	70 - 130	2.7	30
1,1,2,2-Tetrachloroethane			50	49.04		ug/kg		98	70 - 130	0.0	30
1,1,2-Trichloroethane			50	50.86		ug/kg		102	70 - 130	1.0	30
1,1-Dichloroethane			50	52.62		ug/kg		105	70 - 130	1.9	30
1,1-Dichloroethene			50	50.55		ug/kg		101	70 - 130	0.0	30
1,1-Dichloropropene			50	56.55		ug/kg		113	70 - 130	0.9	30
1,2,3-Trichlorobenzene			50	59.23		ug/kg		118	70 - 130	0.8	30
1,2,3-Trichloropropane			50	50.29		ug/kg		101	70 - 130	1.0	30
1,2,4-Trichlorobenzene			50	60.40		ug/kg		121	70 - 130	0.0	30
1,2,4-Trimethylbenzene			50	55.10		ug/kg		110	70 - 130	1.8	30
1,2-Dibromo-3-chloropropane			50	47.74		ug/kg		95	70 - 130	3.1	30
1,2-Dibromoethane			50	49.53		ug/kg		99	70 - 130	0.0	30
1,2-Dichlorobenzene			50	53.82		ug/kg		108	70 - 130	0.9	30
1,2-Dichloroethane			50	54.99		ug/kg		110	70 - 130	1.8	30
1,2-Dichloropropane			50	53.71		ug/kg		107	70 - 130	0.9	30
1,3,5-Trimethylbenzene			50	54.47		ug/kg		109	70 - 130	1.9	30
1,3-Dichlorobenzene			50	54.97		ug/kg		110	70 - 130	0.9	30
1,3-Dichloropropane			50	51.74		ug/kg		103	70 - 130	1.0	30
1,4-Dichlorobenzene			50	55.66		ug/kg		111	70 - 130	1.8	30
2,2-Dichloropropane			50	55.34		ug/kg		111	70 - 130	1.8	30
2-Chlorotoluene			50	54.07		ug/kg		108	70 - 130	0.0	30
2-Hexanone			50	43.11		ug/kg		86	70 - 130	3.4	30
2-Isopropyltoluene			50	54.36		ug/kg		109	70 - 130	0.9	30
4-Chlorotoluene			50	56.17		ug/kg		112	70 - 130	2.7	30
4-Methyl-2-pentanone			50	48.19		ug/kg		96	70 - 130	2.1	30
Acetone			50	41.29		ug/kg		83	70 - 130	1.2	30
Acrylonitrile			50	48.37		ug/kg		97	70 - 130	3.1	30
Benzene			50	53.23		ug/kg		106	70 - 130	0.9	30

Method: Local Method 8260 - VOC by 8260 (Continued)

Lab Sample ID: CK07115-LCSD
Matrix: SOLID
Analysis Batch: 606995A

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606995A_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene			50	53.11		ug/kg		106	70 - 130	0.0	30
Bromochloromethane			50	50.00		ug/kg		100	70 - 130	1.0	30
Bromodichloromethane			50	50.51		ug/kg		101	70 - 130	2.9	30
Bromoform			50	41.29		ug/kg		83	70 - 130	0.0	30
Bromomethane			50	47.22		ug/kg		94	70 - 130	6.6	30
Carbon Disulfide			50	45.88		ug/kg		92	70 - 130	0.0	30
Carbon tetrachloride			50	52.22		ug/kg		104	70 - 130	1.9	30
Chlorobenzene			50	52.66		ug/kg		105	70 - 130	0.9	30
Chloroethane			50	22.79	I	ug/kg		46	70 - 130	2.2	30
Chloroform			50	52.61		ug/kg		105	70 - 130	1.9	30
Chloromethane			50	54.79		ug/kg		110	70 - 130	0.0	30
cis-1,2-Dichloroethene			50	52.42		ug/kg		105	70 - 130	2.8	30
cis-1,3-Dichloropropene			50	53.76		ug/kg		108	70 - 130	0.0	30
Dibromochloromethane			50	46.41		ug/kg		93	70 - 130	2.1	30
Dibromomethane			50	52.92		ug/kg		106	70 - 130	1.9	30
Dichlorodifluoromethane			50	58.38		ug/kg		117	70 - 130	4.2	30
Ethylbenzene			50	53.24		ug/kg		106	70 - 130	0.9	30
Hexachlorobutadiene			50	58.47		ug/kg		117	70 - 130	0.0	30
Isopropylbenzene			50	54.63		ug/kg		109	70 - 130	1.9	30
m&p-Xylene			100	105.0		ug/kg		105	70 - 130	0.9	30
Methyl Ethyl Ketone			50	44.97		ug/kg		90	70 - 130	5.4	30
Methyl t-butyl ether (MTBE)			50	51.26		ug/kg		103	70 - 130	1.9	30
Methylene chloride			50	45.58		ug/kg		91	70 - 130	1.1	30
Naphthalene			50	55.04		ug/kg		110	70 - 130	0.9	30
n-Butylbenzene			50	60.40		ug/kg		121	70 - 130	0.8	30
n-Propylbenzene			50	55.44		ug/kg		111	70 - 130	0.9	30
o-Xylene			50	52.12		ug/kg		104	70 - 130	1.0	30
p-Isopropyltoluene			50	56.51		ug/kg		113	70 - 130	1.8	30
sec-Butylbenzene			50	55.85		ug/kg		112	70 - 130	1.8	30
Styrene			50	52.39		ug/kg		105	70 - 130	1.0	30
tert-Butylbenzene			50	54.91		ug/kg		110	70 - 130	2.8	30
Tetrachloroethene			50	56.03		ug/kg		112	70 - 130	0.9	30
Tetrahydrofuran (THF)			125	114.1		ug/kg		91	70 - 130	6.4	30
Toluene			50	53.26		ug/kg		107	70 - 130	1.9	30
trans-1,2-Dichloroethene			50	51.61		ug/kg		103	70 - 130	1.9	30
trans-1,3-Dichloropropene			50	52.46		ug/kg		105	70 - 130	1.9	30
trans-1,4-dichloro-2-butene			250	235.5		ug/kg		94	70 - 130	0.0	30
Trichloroethene			50	52.51		ug/kg		105	70 - 130	1.9	30
Trichlorofluoromethane			50	31.00	I	ug/kg		62	70 - 130	10.2	30
Trichlorotrifluoroethane			50	49.02		ug/kg		98	70 - 130	3.1	30
Vinyl chloride			50	60.37		ug/kg		121	70 - 130	0.0	30

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
% 1,2-dichlorobenzene-d4	*100*		*70 - 130*
% Bromofluorobenzene	*100*		*70 - 130*
% Dibromofluoromethane	*91*		*70 - 130*
% Toluene-d8	*101*		*70 - 130*

GC/MS VOA

Pre Prep Batch: 6627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-1	Trip Blank	Total/NA	Solid	Frozen Preserve	
620-2319-2	GZ-7	Total/NA	Solid	Frozen Preserve	
620-2319-3	GZ-8	Total/NA	Solid	Frozen Preserve	
620-2319-4	GZ-6	Total/NA	Solid	Frozen Preserve	
620-2319-6	GZ-2	Total/NA	Solid	Frozen Preserve	
620-2319-7	GZ-1	Total/NA	Solid	Frozen Preserve	
620-2319-8	GZ-3	Total/NA	Solid	Frozen Preserve	
620-2319-9	GZ-4	Total/NA	Solid	Frozen Preserve	
620-2319-10	GZ-9	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 6641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-1	Trip Blank	Total/NA	Solid	8260C	6656
620-2319-9	GZ-4	Total/NA	Solid	8260C	6656
620-2319-10	GZ-9	Total/NA	Solid	8260C	6656
MB 620-6656/3-A	Method Blank	Total/NA	Solid	8260C	6656
LCS 620-6656/1-A	Lab Control Sample	Total/NA	Solid	8260C	6656
LCSD 620-6656/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	6656

Prep Batch: 6656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-1	Trip Blank	Total/NA	Solid	5035	6627
620-2319-9	GZ-4	Total/NA	Solid	5035	6627
620-2319-10	GZ-9	Total/NA	Solid	5035	6627
MB 620-6656/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-6656/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-6656/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	8260C	6795
620-2319-3	GZ-8	Total/NA	Solid	8260C	6795
620-2319-4	GZ-6	Total/NA	Solid	8260C	6795
620-2319-6	GZ-2	Total/NA	Solid	8260C	6795
620-2319-7	GZ-1	Total/NA	Solid	8260C	6795
620-2319-8	GZ-3	Total/NA	Solid	8260C	6795
MB 620-6795/1-A	Method Blank	Total/NA	Solid	8260C	6795
LCS 620-6795/2-A	Lab Control Sample	Total/NA	Solid	8260C	6795
LCSD 620-6795/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	6795

Prep Batch: 6795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	5035	6627
620-2319-3	GZ-8	Total/NA	Solid	5035	6627

GC/MS VOA (Continued)

Prep Batch: 6795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-4	GZ-6	Total/NA	Solid	5035	6627
620-2319-6	GZ-2	Total/NA	Solid	5035	6627
620-2319-7	GZ-1	Total/NA	Solid	5035	6627
620-2319-8	GZ-3	Total/NA	Solid	5035	6627
MB 620-6795/1-A	Method Blank	Total/NA	Solid	5035	
LCS 620-6795/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-6795/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 6791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	3546	
620-2319-3	GZ-8	Total/NA	Solid	3546	
620-2319-4	GZ-6	Total/NA	Solid	3546	
620-2319-6	GZ-2	Total/NA	Solid	3546	
620-2319-7	GZ-1	Total/NA	Solid	3546	
620-2319-8	GZ-3	Total/NA	Solid	3546	
620-2319-9	GZ-4	Total/NA	Solid	3546	
620-2319-10	GZ-9	Total/NA	Solid	3546	
MB 620-6791/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-6791/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-6791/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 6822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-3	GZ-8	Total/NA	Solid	8100	6791
620-2319-6	GZ-2	Total/NA	Solid	8100	6791
620-2319-7	GZ-1	Total/NA	Solid	8100	6791
620-2319-8	GZ-3	Total/NA	Solid	8100	6791
620-2319-9	GZ-4	Total/NA	Solid	8100	6791
620-2319-10	GZ-9	Total/NA	Solid	8100	6791
MB 620-6791/1-A	Method Blank	Total/NA	Solid	8100	6791
LCS 620-6791/2-A	Lab Control Sample	Total/NA	Solid	8100	6791
LCSD 620-6791/3-A	Lab Control Sample Dup	Total/NA	Solid	8100	6791

Analysis Batch: 6866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	8100	6791
620-2319-4	GZ-6	Total/NA	Solid	8100	6791

General Chemistry

Analysis Batch: 6677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	Moisture	
620-2319-3	GZ-8	Total/NA	Solid	Moisture	
620-2319-4	GZ-6	Total/NA	Solid	Moisture	
620-2319-6	GZ-2	Total/NA	Solid	Moisture	
620-2319-7	GZ-1	Total/NA	Solid	Moisture	
620-2319-8	GZ-3	Total/NA	Solid	Moisture	
620-2319-9	GZ-4	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 6677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-10	GZ-9	Total/NA	Solid	Moisture	

Subcontract

Analysis Batch: 606488A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	Local Method 8260	606488A_P
620-2319-3	GZ-8	Total/NA	Solid	Local Method 8260	606488A_P
620-2319-4	GZ-6	Total/NA	Solid	Local Method 8260	606488A_P
CK04613-BLK	Method Blank	Total/NA	SOLID	Local Method 8260	606488A_P
CK04613-LCS	Lab Control Sample	Total/NA	SOLID	Local Method 8260	606488A_P
CK04613-LCSD	Lab Control Sample Dup	Total/NA	SOLID	Local Method 8260	606488A_P

Analysis Batch: 606995A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-6	GZ-2	Total/NA	Solid	Local Method 8260	606995A_P
620-2319-6	GZ-2	Total/NA	Solid	Local Method 8260	606995A_P
CK07115-BLK	Method Blank	Total/NA	SOLID	Local Method 8260	606995A_P
CK07115-LCS	Lab Control Sample	Total/NA	SOLID	Local Method 8260	606995A_P
CK07115-LCSD	Lab Control Sample Dup	Total/NA	SOLID	Local Method 8260	606995A_P

Prep Batch: 606488A_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-2	GZ-7	Total/NA	Solid	SW8260C	
620-2319-3	GZ-8	Total/NA	Solid	SW8260C	
620-2319-4	GZ-6	Total/NA	Solid	SW8260C	
CK04613-BLK	Method Blank	Total/NA	SOLID	SW8260C	
CK04613-LCS	Lab Control Sample	Total/NA	SOLID	SW8260C	
CK04613-LCSD	Lab Control Sample Dup	Total/NA	SOLID	SW8260C	

Prep Batch: 606995A_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2319-6	GZ-2	Total/NA	Solid	SW8260C	
620-2319-6	GZ-2	Total/NA	Solid	SW8260C	
CK07115-BLK	Method Blank	Total/NA	SOLID	SW8260C	
CK07115-LCS	Lab Control Sample	Total/NA	SOLID	SW8260C	
CK07115-LCSD	Lab Control Sample Dup	Total/NA	SOLID	SW8260C	

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: Trip Blank
Lab Sample ID: 620-2319-1
Date Collected: 12/10/21 08:00
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6656	12/17/21 12:34	MED	ENE
Total/NA	Analysis	8260C		1	6641	12/17/21 14:25	BMH	ENE

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2
Date Collected: 12/10/21 09:45
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE
Total/NA	Prep	SW8260C		1	606488A_P	12/29/21 11:50		
Total/NA	Analysis	Local Method 8260		1000	606488A	12/29/21 11:50	CT007	

Client Sample ID: GZ-7
Lab Sample ID: 620-2319-2
Date Collected: 12/10/21 09:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 16:47	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		10	6866	12/27/21 12:03	BJJ	ENE

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3
Date Collected: 12/10/21 10:15
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE
Total/NA	Prep	SW8260C		1	606488A_P	12/29/21 16:06		
Total/NA	Analysis	Local Method 8260		50	606488A	12/29/21 16:06	CT007	

Client Sample ID: GZ-8
Lab Sample ID: 620-2319-3
Date Collected: 12/10/21 10:15
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 17:14	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		1	6822	12/23/21 17:23	BJJ	ENE

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4
Date Collected: 12/10/21 10:55
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE
Total/NA	Prep	SW8260C		1	606488A_P	12/29/21 16:26		
Total/NA	Analysis	Local Method 8260		100	606488A	12/29/21 16:26	CT007	

Client Sample ID: GZ-6
Lab Sample ID: 620-2319-4
Date Collected: 12/10/21 10:55
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 17:42	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		10	6866	12/27/21 13:10	BJJ	ENE

Client Sample ID: GZ-2
Lab Sample ID: 620-2319-6
Date Collected: 12/10/21 13:45
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE
Total/NA	Prep	SW8260C		1	606995A_P	01/04/22 12:39		
Total/NA	Analysis	Local Method 8260		50	606995A	01/04/22 12:39	CT007	
Total/NA	Prep	SW8260C		1	606995A_P	01/04/22 12:39		
Total/NA	Analysis	Local Method 8260		83.8	606995A	01/04/22 12:39	CT007	

Client Sample ID: GZ-2
Lab Sample ID: 620-2319-6
Date Collected: 12/10/21 13:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 18:09	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		10	6822	12/23/21 14:29	BJJ	ENE

Client Sample ID: GZ-1
Lab Sample ID: 620-2319-7
Date Collected: 12/10/21 15:10
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-1
Lab Sample ID: 620-2319-7
Date Collected: 12/10/21 15:10
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/10/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 18:36	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		1	6822	12/23/21 10:41	BJJ	ENE

Client Sample ID: GZ-3
Lab Sample ID: 620-2319-8
Date Collected: 12/13/21 10:00
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE

Client Sample ID: GZ-3
Lab Sample ID: 620-2319-8
Date Collected: 12/13/21 10:00
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/13/21 17:37	PN	ENE
Total/NA	Prep	5035			6795	12/22/21 14:24	BMH	ENE
Total/NA	Analysis	8260C		1	6781	12/22/21 19:03	BJJ	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		1	6822	12/23/21 11:06	BJJ	ENE

Client Sample ID: GZ-4
Lab Sample ID: 620-2319-9
Date Collected: 12/13/21 11:45
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE

Client Sample ID: GZ-4
Lab Sample ID: 620-2319-9
Date Collected: 12/13/21 11:45
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/13/21 17:37	PN	ENE
Total/NA	Prep	5035			6656	12/17/21 12:34	MED	ENE
Total/NA	Analysis	8260C		1	6641	12/17/21 15:51	BMH	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		1	6822	12/23/21 16:57	BJJ	ENE

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: GZ-9
Lab Sample ID: 620-2319-10
Date Collected: 12/13/21 14:10
Matrix: Solid
Date Received: 12/15/21 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	6677	12/19/21 15:50	EDT	ENE

Client Sample ID: GZ-9
Lab Sample ID: 620-2319-10
Date Collected: 12/13/21 14:10
Matrix: Solid
Date Received: 12/15/21 15:15
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Frozen Preserve			6627	12/13/21 17:37	PN	ENE
Total/NA	Prep	5035			6656	12/17/21 12:34	MED	ENE
Total/NA	Analysis	8260C		1	6641	12/17/21 16:18	BMH	ENE
Total/NA	Prep	3546			6791	12/22/21 12:07	PRB	ENE
Total/NA	Analysis	8100		1	6822	12/23/21 11:57	BJJ	ENE

Laboratory References:

= Manchester, CT, 587 East Middle Turnpike, Manchester, CT 06040, TEL (860)645-8726

ENE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

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
Rhode Island	State	LAI00368	12-31-21

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
8100	3546	Solid	TEPH (C9-C36)
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Laboratory: Eurofins New England (Continued)

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

Authority	Program	Identification Number	Expiration Date

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	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ENE
8100	Polynuclear Aromatic Hydrocarbons (PAHs) (GC)	SW846	ENE
Moisture	Percent Moisture	EPA	ENE
8260B	VOC by 8260	SW846	
3546	Microwave Extraction	SW846	ENE
5035	Closed System Purge and Trap	SW846	ENE
Frozen Preserve	Freezing Samples	None	ENE

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:

= Manchester, CT, 587 East Middle Turnpike, Manchester, CT 06040, TEL (860)645-8726

ENE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2319-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-2319-1	Trip Blank	Solid	12/10/21 08:00	12/15/21 15:15
620-2319-2	GZ-7	Solid	12/10/21 09:45	12/15/21 15:15
620-2319-3	GZ-8	Solid	12/10/21 10:15	12/15/21 15:15
620-2319-4	GZ-6	Solid	12/10/21 10:55	12/15/21 15:15
620-2319-6	GZ-2	Solid	12/10/21 13:45	12/15/21 15:15
620-2319-7	GZ-1	Solid	12/10/21 15:10	12/15/21 15:15
620-2319-8	GZ-3	Solid	12/13/21 10:00	12/15/21 15:15
620-2319-9	GZ-4	Solid	12/13/21 11:45	12/15/21 15:15
620-2319-10	GZ-9	Solid	12/13/21 14:10	12/15/21 15:15

620-2319 Chain of Custody

...ment Testing
New England

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] 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: Erik Belotti
Telephone #: 401-421-4140
Project Mgr: Erik Belotti

Invoice To: GZA
P.O No. _____ Quote # _____

Project No: 34950.00
Site Name: 92 Sunnyside Ave.
Location: Woonsocket RI State: RI
Sampler(s): Ben Barnes (BNB)
Erik Belotti (EMB)

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= None 12= MeOH

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= Lab Provided X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 9 | 12 | 11

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: VOC	VOC	TPH						Check if chlorinated
	Trip Blank	12/10/21	0800	-	W	1	-	-	-	X	X							
	GZ-7	12/10/21	0945	G	SO	3	1	-	-	X	X	X						
	GZ-8	12/10/21	1015	G	SO	3	1	-	-	X	X	X						
	GZ-6	12/10/21	1055	G	SO	3	1	-	-	X	X	X						
	GZ-5	12/10/21	1145	G	SO	3	1	-	-	X	X	X						Hold GZ-5
	GZ-2	12/10/21	1345	G	SO	3	1	-	-	X	X	X						
	GZ-1	12/10/21	1510	G	SO	3	1	-	-	X	X	X						
	GZ-3	12-13-21	1000	G	SO	3	1	-	-	X	X	X						
	GZ-4	12-13-21	1145	G	SO	3	1	-	-	X	X	X						
	GZ-9	12-13-21	1410	G	SO	3	1	-	-	X	X	X						

QA/QC Reporting Notes:
* additional charges may appply

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:
12-13-21 1515		12/15/21	13:54
		12/15/21	15:15

Temp °C: Observed 1.9; Correction Factor +1; Corrected 2.9; IR ID # C

[x] EDD format PDF, Excel
[x] E-mail to Erik.belotti@gza.com

Condition upon receipt: Custody Seals: [ ] Present [ ] Intact [ ] Broken
[ ] Ambient [ ] Iced [x] Refrigerated [ ] DI VOA Frozen [x] Soil Jar Frozen

Sample Shipping Address: 126 Myron Street • West Springfield, MA 01089 • 413-789-9018
Lab Address: 646 Camp Ave • North Kingstown, RI 02852
www.EurofinsUS.com/Spectrum

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 620-2319-1

Login Number: 2319
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing New England

ANALYTICAL REPORT

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Tel: (413)789-9018

Laboratory Job ID: 620-2595-1
Client Project/Site: 92 Sunnyside Ave - Woonsocket, RI

For:
GZA GeoEnvironmental, Inc.
188 Valley St
Suite 300
Providence, Rhode Island 02909

Attn: Erik Beloff

Authorized for release by:
1/19/2022 6:11:23 PM

Agnes Huntley, Project Manager
(401)372-3482
agnes.huntley@eurofinset.com

Table of Contents

Definitions/Glossary

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

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.

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

Job ID: 620-2595-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-2595-1

Comments
No additional comments.

Receipt
The samples were received on 1/12/2022 3:38 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 was 3.2º 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: Dichlorodifluromethane, Vinyl Chloride, trans-1,3-Dichloropropene, Trichlorofluoromethane, Carbon tetrachloride, 1,1,1-Trichloroethane, 2,2-Dichloropropane, Bromoform, Dichlorobromomethane, Chloroethane, Bromomethane.

Method 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-7349 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane, 2-Butanone (MEK), Tert-butanol which have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 620-7349 recovered outside control limits for the following analytes: Bromoform, Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-9 — Lab Sample ID: 620-2595-1

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 620-2595-2

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 620-2595-3

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 620-2595-4

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 620-2595-5

No Detections.

Client Sample ID: BD20220112 — Lab Sample ID: 620-2595-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-9
Lab Sample ID: 620-2595-1
Date Collected: 01/12/22 11:17
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 18:03	1
Acetone	ND		10.0		ug/L			01/17/22 18:03	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 18:03	1
Benzene	ND		1.00		ug/L			01/17/22 18:03	1
Bromobenzene	ND		1.00		ug/L			01/17/22 18:03	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 18:03	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 18:03	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 18:03	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 18:03	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 18:03	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 18:03	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 18:03	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 18:03	1
Chloroform	ND		1.00		ug/L			01/17/22 18:03	1
Chloromethane	ND		2.00		ug/L			01/17/22 18:03	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:03	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:03	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 18:03	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 18:03	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 18:03	1
Dibromomethane	ND		1.00		ug/L			01/17/22 18:03	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 18:03	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 18:03	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 18:03	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 18:03	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:03	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:03	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:03	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 18:03	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:03	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 18:03	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:03	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:03	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 18:03	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 18:03	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 18:03	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 18:03	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 18:03	1
Naphthalene	ND		2.00		ug/L			01/17/22 18:03	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-9
Lab Sample ID: 620-2595-1
Date Collected: 01/12/22 11:17
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
Styrene	ND		1.00		ug/L			01/17/22 18:03	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 18:03	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 18:03	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 18:03	1
Toluene	ND		1.00		ug/L			01/17/22 18:03	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 18:03	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 18:03	1
Trichloroethene	ND		1.00		ug/L			01/17/22 18:03	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 18:03	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 18:03	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:03	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 18:03	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 18:03	1
o-Xylene	ND		1.00		ug/L			01/17/22 18:03	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 18:03	1
Ethyl ether	ND		1.00		ug/L			01/17/22 18:03	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 18:03	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:03	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 18:03	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 18:03	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 18:03	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 18:03	1
Ethanol	ND		200		ug/L			01/17/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/17/22 18:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/17/22 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/17/22 18:03*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/17/22 18:03*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-4
Lab Sample ID: 620-2595-2
Date Collected: 01/12/22 11:49
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 17:36	1
Acetone	ND		10.0		ug/L			01/17/22 17:36	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 17:36	1
Benzene	ND		1.00		ug/L			01/17/22 17:36	1
Bromobenzene	ND		1.00		ug/L			01/17/22 17:36	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 17:36	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 17:36	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 17:36	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 17:36	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 17:36	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 17:36	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 17:36	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 17:36	1
Chloroform	ND		1.00		ug/L			01/17/22 17:36	1
Chloromethane	ND		2.00		ug/L			01/17/22 17:36	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 17:36	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 17:36	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 17:36	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 17:36	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 17:36	1
Dibromomethane	ND		1.00		ug/L			01/17/22 17:36	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 17:36	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 17:36	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 17:36	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 17:36	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 17:36	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 17:36	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 17:36	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 17:36	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 17:36	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 17:36	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 17:36	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 17:36	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 17:36	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 17:36	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 17:36	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 17:36	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 17:36	1
Naphthalene	ND		2.00		ug/L			01/17/22 17:36	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-4
Lab Sample ID: 620-2595-2
Date Collected: 01/12/22 11:49
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
Styrene	ND		1.00		ug/L			01/17/22 17:36	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 17:36	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 17:36	1
Toluene	ND		1.00		ug/L			01/17/22 17:36	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 17:36	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 17:36	1
Trichloroethene	ND		1.00		ug/L			01/17/22 17:36	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 17:36	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 17:36	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 17:36	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 17:36	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 17:36	1
o-Xylene	ND		1.00		ug/L			01/17/22 17:36	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 17:36	1
Ethyl ether	ND		1.00		ug/L			01/17/22 17:36	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 17:36	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 17:36	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 17:36	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 17:36	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 17:36	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 17:36	1
Ethanol	ND		200		ug/L			01/17/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/17/22 17:36*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/17/22 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/17/22 17:36*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*01/17/22 17:36*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-3
Lab Sample ID: 620-2595-3
Date Collected: 01/12/22 12:35
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 17:09	1
Acetone	ND		10.0		ug/L			01/17/22 17:09	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 17:09	1
Benzene	ND		1.00		ug/L			01/17/22 17:09	1
Bromobenzene	ND		1.00		ug/L			01/17/22 17:09	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 17:09	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 17:09	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 17:09	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 17:09	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 17:09	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 17:09	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 17:09	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 17:09	1
Chloroform	ND		1.00		ug/L			01/17/22 17:09	1
Chloromethane	ND		2.00		ug/L			01/17/22 17:09	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 17:09	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 17:09	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 17:09	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 17:09	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 17:09	1
Dibromomethane	ND		1.00		ug/L			01/17/22 17:09	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 17:09	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 17:09	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 17:09	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 17:09	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 17:09	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 17:09	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 17:09	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 17:09	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 17:09	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 17:09	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 17:09	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 17:09	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 17:09	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 17:09	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 17:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 17:09	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 17:09	1
Naphthalene	ND		2.00		ug/L			01/17/22 17:09	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-3
Lab Sample ID: 620-2595-3
Date Collected: 01/12/22 12:35
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
Styrene	ND		1.00		ug/L			01/17/22 17:09	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 17:09	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 17:09	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 17:09	1
Toluene	ND		1.00		ug/L			01/17/22 17:09	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 17:09	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 17:09	1
Trichloroethene	ND		1.00		ug/L			01/17/22 17:09	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 17:09	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 17:09	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 17:09	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 17:09	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 17:09	1
o-Xylene	ND		1.00		ug/L			01/17/22 17:09	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 17:09	1
Ethyl ether	ND		1.00		ug/L			01/17/22 17:09	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 17:09	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 17:09	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 17:09	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 17:09	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 17:09	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 17:09	1
Ethanol	ND		200		ug/L			01/17/22 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/17/22 17:09*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/17/22 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*01/17/22 17:09*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/17/22 17:09*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-2
Lab Sample ID: 620-2595-4
Date Collected: 01/12/22 12:57
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 18:30	1
Acetone	ND		10.0		ug/L			01/17/22 18:30	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 18:30	1
Benzene	ND		1.00		ug/L			01/17/22 18:30	1
Bromobenzene	ND		1.00		ug/L			01/17/22 18:30	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 18:30	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 18:30	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 18:30	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 18:30	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 18:30	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 18:30	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 18:30	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 18:30	1
Chloroform	ND		1.00		ug/L			01/17/22 18:30	1
Chloromethane	ND		2.00		ug/L			01/17/22 18:30	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:30	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:30	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 18:30	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 18:30	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 18:30	1
Dibromomethane	ND		1.00		ug/L			01/17/22 18:30	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 18:30	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 18:30	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 18:30	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 18:30	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:30	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:30	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:30	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 18:30	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:30	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 18:30	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:30	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:30	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 18:30	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 18:30	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 18:30	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 18:30	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 18:30	1
Naphthalene	ND		2.00		ug/L			01/17/22 18:30	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-2
Lab Sample ID: 620-2595-4
Date Collected: 01/12/22 12:57
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
Styrene	ND		1.00		ug/L			01/17/22 18:30	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 18:30	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 18:30	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 18:30	1
Toluene	ND		1.00		ug/L			01/17/22 18:30	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 18:30	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 18:30	1
Trichloroethene	ND		1.00		ug/L			01/17/22 18:30	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 18:30	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 18:30	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:30	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 18:30	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 18:30	1
o-Xylene	ND		1.00		ug/L			01/17/22 18:30	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 18:30	1
Ethyl ether	ND		1.00		ug/L			01/17/22 18:30	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 18:30	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:30	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 18:30	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 18:30	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 18:30	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 18:30	1
Ethanol	ND		200		ug/L			01/17/22 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/17/22 18:30*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*01/17/22 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/17/22 18:30*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/17/22 18:30*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-1
Lab Sample ID: 620-2595-5
Date Collected: 01/12/22 13:29
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 18:57	1
Acetone	ND		10.0		ug/L			01/17/22 18:57	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 18:57	1
Benzene	ND		1.00		ug/L			01/17/22 18:57	1
Bromobenzene	ND		1.00		ug/L			01/17/22 18:57	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 18:57	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 18:57	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 18:57	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 18:57	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 18:57	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 18:57	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 18:57	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 18:57	1
Chloroform	ND		1.00		ug/L			01/17/22 18:57	1
Chloromethane	ND		2.00		ug/L			01/17/22 18:57	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:57	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 18:57	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 18:57	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 18:57	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 18:57	1
Dibromomethane	ND		1.00		ug/L			01/17/22 18:57	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 18:57	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 18:57	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 18:57	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 18:57	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:57	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 18:57	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:57	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 18:57	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 18:57	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 18:57	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:57	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 18:57	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 18:57	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 18:57	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 18:57	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 18:57	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 18:57	1
Naphthalene	ND		2.00		ug/L			01/17/22 18:57	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-1
Lab Sample ID: 620-2595-5
Date Collected: 01/12/22 13:29
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
Styrene	ND		1.00		ug/L			01/17/22 18:57	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 18:57	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 18:57	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 18:57	1
Toluene	ND		1.00		ug/L			01/17/22 18:57	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 18:57	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 18:57	1
Trichloroethene	ND		1.00		ug/L			01/17/22 18:57	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 18:57	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 18:57	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 18:57	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 18:57	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 18:57	1
o-Xylene	ND		1.00		ug/L			01/17/22 18:57	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 18:57	1
Ethyl ether	ND		1.00		ug/L			01/17/22 18:57	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 18:57	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 18:57	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 18:57	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 18:57	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 18:57	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 18:57	1
Ethanol	ND		200		ug/L			01/17/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/17/22 18:57*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*01/17/22 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/17/22 18:57*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/17/22 18:57*	*1*

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: BD20220112
Lab Sample ID: 620-2595-6
Date Collected: 01/12/22 08:00
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00		ug/L			01/17/22 16:42	1
Acetone	ND		10.0		ug/L			01/17/22 16:42	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 16:42	1
Benzene	ND		1.00		ug/L			01/17/22 16:42	1
Bromobenzene	ND		1.00		ug/L			01/17/22 16:42	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 16:42	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 16:42	1
Bromoform	ND	*+	1.00		ug/L			01/17/22 16:42	1
Bromomethane	ND	*+	2.00		ug/L			01/17/22 16:42	1
2-Butanone (MEK)	ND	*1	2.00		ug/L			01/17/22 16:42	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 16:42	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 16:42	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
Chloroethane	ND	*+	2.00		ug/L			01/17/22 16:42	1
Chloroform	ND		1.00		ug/L			01/17/22 16:42	1
Chloromethane	ND		2.00		ug/L			01/17/22 16:42	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 16:42	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 16:42	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 16:42	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 16:42	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 16:42	1
Dibromomethane	ND		1.00		ug/L			01/17/22 16:42	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00		ug/L			01/17/22 16:42	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 16:42	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 16:42	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 16:42	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 16:42	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 16:42	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 16:42	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 16:42	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 16:42	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 16:42	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 16:42	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 16:42	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 16:42	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 16:42	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 16:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 16:42	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 16:42	1
Naphthalene	ND		2.00		ug/L			01/17/22 16:42	1

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: BD20220112
Lab Sample ID: 620-2595-6
Date Collected: 01/12/22 08:00
Matrix: Water
Date Received: 01/12/22 15:38

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
Styrene	ND		1.00		ug/L			01/17/22 16:42	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 16:42	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 16:42	1
Toluene	ND		1.00		ug/L			01/17/22 16:42	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 16:42	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 16:42	1
Trichloroethene	ND		1.00		ug/L			01/17/22 16:42	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 16:42	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 16:42	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 16:42	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 16:42	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 16:42	1
o-Xylene	ND		1.00		ug/L			01/17/22 16:42	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 16:42	1
Ethyl ether	ND		1.00		ug/L			01/17/22 16:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 16:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 16:42	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 16:42	1
tert-Butanol	ND	*+ *- *1	10.0		ug/L			01/17/22 16:42	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 16:42	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 16:42	1
Ethanol	ND		200		ug/L			01/17/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/17/22 16:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/17/22 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/17/22 16:42*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/17/22 16:42*	*1*

Surrogate Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-2595-1	MW-9	101	101	112	105
620-2595-2	MW-4	100	100	112	104
620-2595-3	MW-3	101	101	111	105
620-2595-4	MW-2	102	102	113	106
620-2595-5	MW-1	101	102	113	106
620-2595-6	BD20220112	101	100	113	105
LCS 620-7349/3	Lab Control Sample	105	103	109	107
LCSD 620-7349/4	Lab Control Sample Dup	105	103	110	105
MB 620-7349/6	Method Blank	102	101	114	105

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

Lab Sample ID: MB 620-7349/6
Matrix: Water
Analysis Batch: 7349

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		1.00		ug/L			01/17/22 11:27	1
Acetone	ND		10.0		ug/L			01/17/22 11:27	1
Acrylonitrile	ND		0.500		ug/L			01/17/22 11:27	1
Benzene	ND		1.00		ug/L			01/17/22 11:27	1
Bromobenzene	ND		1.00		ug/L			01/17/22 11:27	1
Bromochloromethane	ND		1.00		ug/L			01/17/22 11:27	1
Bromodichloromethane	ND		0.500		ug/L			01/17/22 11:27	1
Bromoform	ND		1.00		ug/L			01/17/22 11:27	1
Bromomethane	ND		2.00		ug/L			01/17/22 11:27	1
2-Butanone (MEK)	ND		2.00		ug/L			01/17/22 11:27	1
n-Butylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
sec-Butylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
tert-Butylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
Carbon disulfide	ND		2.00		ug/L			01/17/22 11:27	1
Carbon tetrachloride	ND		1.00		ug/L			01/17/22 11:27	1
Chlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
Chloroethane	ND		2.00		ug/L			01/17/22 11:27	1
Chloroform	ND		1.00		ug/L			01/17/22 11:27	1
Chloromethane	ND		2.00		ug/L			01/17/22 11:27	1
2-Chlorotoluene	ND		1.00		ug/L			01/17/22 11:27	1
4-Chlorotoluene	ND		1.00		ug/L			01/17/22 11:27	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			01/17/22 11:27	1
Dibromochloromethane	ND		0.500		ug/L			01/17/22 11:27	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			01/17/22 11:27	1
Dibromomethane	ND		1.00		ug/L			01/17/22 11:27	1
1,2-Dichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,3-Dichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,4-Dichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
Dichlorodifluoromethane (Freon 12)	ND		2.00		ug/L			01/17/22 11:27	1
1,1-Dichloroethane	ND		1.00		ug/L			01/17/22 11:27	1
1,2-Dichloroethane	ND		1.00		ug/L			01/17/22 11:27	1
1,1-Dichloroethene	ND		1.00		ug/L			01/17/22 11:27	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 11:27	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			01/17/22 11:27	1
1,2-Dichloropropane	ND		1.00		ug/L			01/17/22 11:27	1
1,3-Dichloropropane	ND		1.00		ug/L			01/17/22 11:27	1
2,2-Dichloropropane	ND		1.00		ug/L			01/17/22 11:27	1
1,1-Dichloropropene	ND		1.00		ug/L			01/17/22 11:27	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 11:27	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			01/17/22 11:27	1
Ethylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
Hexachlorobutadiene	ND		1.00		ug/L			01/17/22 11:27	1
2-Hexanone (MBK)	ND		2.00		ug/L			01/17/22 11:27	1
Isopropylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
4-Isopropyltoluene	ND		1.00		ug/L			01/17/22 11:27	1
Methyl tert-butyl ether	ND		1.00		ug/L			01/17/22 11:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.00		ug/L			01/17/22 11:27	1
Methylene Chloride	ND		2.00		ug/L			01/17/22 11:27	1

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

Lab Sample ID: MB 620-7349/6
Matrix: Water
Analysis Batch: 7349

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.00		ug/L			01/17/22 11:27	1
N-Propylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
Styrene	ND		1.00		ug/L			01/17/22 11:27	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			01/17/22 11:27	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			01/17/22 11:27	1
Tetrachloroethene	ND		1.00		ug/L			01/17/22 11:27	1
Toluene	ND		1.00		ug/L			01/17/22 11:27	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,3,5-Trichlorobenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,1,1-Trichloroethane	ND		1.00		ug/L			01/17/22 11:27	1
1,1,2-Trichloroethane	ND		1.00		ug/L			01/17/22 11:27	1
Trichloroethene	ND		1.00		ug/L			01/17/22 11:27	1
Trichlorofluoromethane (Freon 11)	ND		1.00		ug/L			01/17/22 11:27	1
1,2,3-Trichloropropane	ND		1.00		ug/L			01/17/22 11:27	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			01/17/22 11:27	1
Vinyl chloride	ND		1.00		ug/L			01/17/22 11:27	1
m,p-Xylene	ND		1.00		ug/L			01/17/22 11:27	1
o-Xylene	ND		1.00		ug/L			01/17/22 11:27	1
Tetrahydrofuran	ND		2.00		ug/L			01/17/22 11:27	1
Ethyl ether	ND		1.00		ug/L			01/17/22 11:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			01/17/22 11:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			01/17/22 11:27	1
di-Isopropyl ether	ND		1.00		ug/L			01/17/22 11:27	1
tert-Butanol	ND		10.0		ug/L			01/17/22 11:27	1
1,4-Dioxane	ND		50.0		ug/L			01/17/22 11:27	1
trans-1,4-Dichloro-2-butene	ND		5.00		ug/L			01/17/22 11:27	1
Ethanol	ND		200		ug/L			01/17/22 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/17/22 11:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*01/17/22 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*01/17/22 11:27*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/17/22 11:27*	*1*

Lab Sample ID: LCS 620-7349/3
Matrix: Water
Analysis Batch: 7349

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	21.98		ug/L		110	70 - 130
Acetone	20.0	17.75		ug/L		89	70 - 130
Acrylonitrile	20.0	18.22		ug/L		91	70 - 130
Benzene	20.0	18.77		ug/L		94	70 - 130
Bromobenzene	20.0	21.28		ug/L		106	70 - 130
Bromochloromethane	20.0	21.79		ug/L		109	70 - 130
Bromodichloromethane	20.0	25.75		ug/L		129	70 - 130

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

Lab Sample ID: LCS 620-7349/3
Matrix: Water
Analysis Batch: 7349

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	26.19	*+	ug/L		131	70 - 130
Bromomethane	20.0	29.81	*+	ug/L		149	70 - 130
2-Butanone (MEK)	20.0	23.72		ug/L		119	70 - 130
n-Butylbenzene	20.0	19.97		ug/L		100	70 - 130
sec-Butylbenzene	20.0	19.77		ug/L		99	70 - 130
tert-Butylbenzene	20.0	20.69		ug/L		103	70 - 130
Carbon disulfide	20.0	25.24		ug/L		126	70 - 130
Carbon tetrachloride	20.0	23.13		ug/L		116	70 - 130
Chlorobenzene	20.0	21.45		ug/L		107	70 - 130
Chloroethane	20.0	26.37	*+	ug/L		132	70 - 130
Chloroform	20.0	22.11		ug/L		111	70 - 130
Chloromethane	20.0	19.80		ug/L		99	70 - 130
2-Chlorotoluene	20.0	21.15		ug/L		106	70 - 130
4-Chlorotoluene	20.0	22.58		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	21.64		ug/L		108	70 - 130
Dibromochloromethane	20.0	22.17		ug/L		111	70 - 130
1,2-Dibromoethane (EDB)	20.0	22.89		ug/L		114	70 - 130
Dibromomethane	20.0	21.31		ug/L		107	70 - 130
1,2-Dichlorobenzene	20.0	20.77		ug/L		104	70 - 130
1,3-Dichlorobenzene	20.0	22.01		ug/L		110	70 - 130
1,4-Dichlorobenzene	20.0	20.66		ug/L		103	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	13.24	*-	ug/L		66	70 - 130
1,1-Dichloroethane	20.0	21.30		ug/L		106	70 - 130
1,2-Dichloroethane	20.0	20.74		ug/L		104	70 - 130
1,1-Dichloroethene	20.0	20.47		ug/L		102	70 - 130
cis-1,2-Dichloroethene	20.0	22.13		ug/L		111	70 - 130
trans-1,2-Dichloroethene	20.0	21.79		ug/L		109	70 - 130
1,2-Dichloropropane	20.0	21.30		ug/L		106	70 - 130
1,3-Dichloropropane	20.0	21.28		ug/L		106	70 - 130
2,2-Dichloropropane	20.0	23.98		ug/L		120	70 - 130
1,1-Dichloropropene	20.0	20.57		ug/L		103	70 - 130
cis-1,3-Dichloropropene	20.0	22.73		ug/L		114	70 - 130
trans-1,3-Dichloropropene	20.0	23.95		ug/L		120	70 - 130
Ethylbenzene	20.0	20.31		ug/L		102	70 - 130
Hexachlorobutadiene	20.0	19.30		ug/L		97	70 - 130
2-Hexanone (MBK)	20.0	18.87		ug/L		94	70 - 130
Isopropylbenzene	20.0	20.85		ug/L		104	70 - 130
4-Isopropyltoluene	20.0	18.61		ug/L		93	70 - 130
Methyl tert-butyl ether	20.0	20.99		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.68		ug/L		83	70 - 130
Methylene Chloride	20.0	21.71		ug/L		109	70 - 130
Naphthalene	20.0	17.84		ug/L		89	70 - 130
N-Propylbenzene	20.0	21.52		ug/L		108	70 - 130
Styrene	20.0	19.70		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.75		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.70		ug/L		108	70 - 130
Tetrachloroethene	20.0	21.16		ug/L		106	70 - 130
Toluene	20.0	19.34		ug/L		97	70 - 130

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

Lab Sample ID: LCS 620-7349/3
Matrix: Water
Analysis Batch: 7349

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	19.20		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	20.0	20.99		ug/L		105	70 - 130
1,3,5-Trichlorobenzene	20.0	19.29		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	23.39		ug/L		117	70 - 130
1,1,2-Trichloroethane	20.0	22.97		ug/L		115	70 - 130
Trichloroethene	20.0	21.09		ug/L		105	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	22.69		ug/L		113	70 - 130
1,2,3-Trichloropropane	20.0	20.58		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	20.0	20.88		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	20.0	20.49		ug/L		102	70 - 130
Vinyl chloride	20.0	22.27		ug/L		111	70 - 130
m,p-Xylene	40.0	42.33		ug/L		106	70 - 130
o-Xylene	20.0	21.64		ug/L		108	70 - 130
Tetrahydrofuran	20.0	19.29		ug/L		96	70 - 130
Ethyl ether	20.0	18.57		ug/L		93	70 - 130
Tert-amyl methyl ether	20.0	22.35		ug/L		112	70 - 130
Ethyl tert-butyl ether	20.0	20.33		ug/L		102	70 - 130
di-Isopropyl ether	20.0	18.06		ug/L		90	70 - 130
tert-Butanol	200	341.2	*+	ug/L		171	70 - 130
1,4-Dioxane	200	178.2		ug/L		89	70 - 130
trans-1,4-Dichloro-2-butene	20.0	19.66		ug/L		98	70 - 130
Ethanol	400	393.8		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 620-7349/4
Matrix: Water
Analysis Batch: 7349

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	22.08		ug/L		110	70 - 130	0	20
Acetone	20.0	18.25		ug/L		91	70 - 130	3	20
Acrylonitrile	20.0	18.48		ug/L		92	70 - 130	1	20
Benzene	20.0	18.74		ug/L		94	70 - 130	0	20
Bromobenzene	20.0	21.21		ug/L		106	70 - 130	0	20
Bromochloromethane	20.0	21.66		ug/L		108	70 - 130	1	20
Bromodichloromethane	20.0	25.77		ug/L		129	70 - 130	0	20
Bromoform	20.0	25.93		ug/L		130	70 - 130	1	20
Bromomethane	20.0	29.94	*+	ug/L		150	70 - 130	0	20
2-Butanone (MEK)	20.0	16.81	*1	ug/L		84	70 - 130	34	20
n-Butylbenzene	20.0	20.16		ug/L		101	70 - 130	1	20
sec-Butylbenzene	20.0	19.53		ug/L		98	70 - 130	1	20
tert-Butylbenzene	20.0	20.86		ug/L		104	70 - 130	1	20

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

Lab Sample ID: LCSD 620-7349/4
Matrix: Water
Analysis Batch: 7349

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	22.69		ug/L		113	70 - 130	11	20
Carbon tetrachloride	20.0	22.93		ug/L		115	70 - 130	1	20
Chlorobenzene	20.0	21.25		ug/L		106	70 - 130	1	20
Chloroethane	20.0	25.27		ug/L		126	70 - 130	4	20
Chloroform	20.0	22.09		ug/L		110	70 - 130	0	20
Chloromethane	20.0	20.03		ug/L		100	70 - 130	1	20
2-Chlorotoluene	20.0	21.50		ug/L		108	70 - 130	2	20
4-Chlorotoluene	20.0	22.19		ug/L		111	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	20.0	21.37		ug/L		107	70 - 130	1	20
Dibromochloromethane	20.0	22.21		ug/L		111	70 - 130	0	20
1,2-Dibromoethane (EDB)	20.0	22.87		ug/L		114	70 - 130	0	20
Dibromomethane	20.0	21.25		ug/L		106	70 - 130	0	20
1,2-Dichlorobenzene	20.0	20.88		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	20.0	21.88		ug/L		109	70 - 130	1	20
1,4-Dichlorobenzene	20.0	21.15		ug/L		106	70 - 130	2	20
Dichlorodifluoromethane (Freon 12)	20.0	13.27	*-	ug/L		66	70 - 130	0	20
1,1-Dichloroethane	20.0	21.12		ug/L		106	70 - 130	1	20
1,2-Dichloroethane	20.0	20.61		ug/L		103	70 - 130	1	20
1,1-Dichloroethene	20.0	20.74		ug/L		104	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	21.99		ug/L		110	70 - 130	1	20
trans-1,2-Dichloroethene	20.0	21.73		ug/L		109	70 - 130	0	20
1,2-Dichloropropane	20.0	21.31		ug/L		107	70 - 130	0	20
1,3-Dichloropropane	20.0	21.39		ug/L		107	70 - 130	1	20
2,2-Dichloropropane	20.0	23.66		ug/L		118	70 - 130	1	20
1,1-Dichloropropene	20.0	20.27		ug/L		101	70 - 130	1	20
cis-1,3-Dichloropropene	20.0	22.32		ug/L		112	70 - 130	2	20
trans-1,3-Dichloropropene	20.0	23.97		ug/L		120	70 - 130	0	20
Ethylbenzene	20.0	20.10		ug/L		100	70 - 130	1	20
Hexachlorobutadiene	20.0	19.52		ug/L		98	70 - 130	1	20
2-Hexanone (MBK)	20.0	18.77		ug/L		94	70 - 130	1	20
Isopropylbenzene	20.0	20.62		ug/L		103	70 - 130	1	20
4-Isopropyltoluene	20.0	18.97		ug/L		95	70 - 130	2	20
Methyl tert-butyl ether	20.0	20.81		ug/L		104	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	17.31		ug/L		87	70 - 130	4	20
Methylene Chloride	20.0	21.62		ug/L		108	70 - 130	0	20
Naphthalene	20.0	18.44		ug/L		92	70 - 130	3	20
N-Propylbenzene	20.0	21.42		ug/L		107	70 - 130	0	20
Styrene	20.0	19.47		ug/L		97	70 - 130	1	20
1,1,1,2-Tetrachloroethane	20.0	22.47		ug/L		112	70 - 130	1	20
1,1,2,2-Tetrachloroethane	20.0	20.75		ug/L		104	70 - 130	4	20
Tetrachloroethene	20.0	20.98		ug/L		105	70 - 130	1	20
Toluene	20.0	19.20		ug/L		96	70 - 130	1	20
1,2,3-Trichlorobenzene	20.0	19.63		ug/L		98	70 - 130	2	20
1,2,4-Trichlorobenzene	20.0	21.25		ug/L		106	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	19.72		ug/L		99	70 - 130	2	20
1,1,1-Trichloroethane	20.0	23.18		ug/L		116	70 - 130	1	20
1,1,2-Trichloroethane	20.0	22.91		ug/L		115	70 - 130	0	20
Trichloroethene	20.0	21.84		ug/L		109	70 - 130	3	20

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

Lab Sample ID: LCSD 620-7349/4
Matrix: Water
Analysis Batch: 7349

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	22.53		ug/L		113	70 - 130	1	20
1,2,3-Trichloropropane			20.0	20.25		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene			20.0	20.71		ug/L		104	70 - 130	1	20
1,3,5-Trimethylbenzene			20.0	20.44		ug/L		102	70 - 130	0	20
Vinyl chloride			20.0	22.03		ug/L		110	70 - 130	1	20
m,p-Xylene			40.0	42.19		ug/L		105	70 - 130	0	20
o-Xylene			20.0	21.37		ug/L		107	70 - 130	1	20
Tetrahydrofuran			20.0	18.91		ug/L		95	70 - 130	2	20
Ethyl ether			20.0	18.30		ug/L		91	70 - 130	1	20
Tert-amyl methyl ether			20.0	22.20		ug/L		111	70 - 130	1	20
Ethyl tert-butyl ether			20.0	20.34		ug/L		102	70 - 130	0	20
di-Isopropyl ether			20.0	17.85		ug/L		89	70 - 130	1	20
tert-Butanol			200	130.8	*- *1	ug/L		65	70 - 130	89	20
1,4-Dioxane			200	213.7		ug/L		107	70 - 130	18	20
trans-1,4-Dichloro-2-butene			20.0	19.50		ug/L		97	70 - 130	1	20
Ethanol			400	343.1		ug/L		86	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

QC Association Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

GC/MS VOA

Analysis Batch: 7349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-2595-1	MW-9	Total/NA	Water	8260C	
620-2595-2	MW-4	Total/NA	Water	8260C	
620-2595-3	MW-3	Total/NA	Water	8260C	
620-2595-4	MW-2	Total/NA	Water	8260C	
620-2595-5	MW-1	Total/NA	Water	8260C	
620-2595-6	BD20220112	Total/NA	Water	8260C	
MB 620-7349/6	Method Blank	Total/NA	Water	8260C	
LCS 620-7349/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-7349/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Client Sample ID: MW-9
Lab Sample ID: 620-2595-1
Date Collected: 01/12/22 11:17
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 18:03	MED	ENE

Client Sample ID: MW-4
Lab Sample ID: 620-2595-2
Date Collected: 01/12/22 11:49
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 17:36	MED	ENE

Client Sample ID: MW-3
Lab Sample ID: 620-2595-3
Date Collected: 01/12/22 12:35
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 17:09	MED	ENE

Client Sample ID: MW-2
Lab Sample ID: 620-2595-4
Date Collected: 01/12/22 12:57
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 18:30	MED	ENE

Client Sample ID: MW-1
Lab Sample ID: 620-2595-5
Date Collected: 01/12/22 13:29
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 18:57	MED	ENE

Client Sample ID: BD20220112
Lab Sample ID: 620-2595-6
Date Collected: 01/12/22 08:00
Matrix: Water
Date Received: 01/12/22 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	7349	01/17/22 16:42	MED	ENE

Laboratory References:

ENE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: GZA GeoEnvironmental, Inc. Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Laboratory: Eurofins New England

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	<cert No.>	02-28-23
Connecticut	State	PH-0722	06-30-22
Maine	State	RI00100	04-17-23
Massachusetts	State	M-RI907	06-30-22
New Hampshire	NELAP	2240	08-03-22
New Jersey	NELAP	RI008	06-30-22
New York	NELAP	11393	04-01-22
USDA	US Federal Programs	P330-20-00109	04-15-23

Method Summary

Client: GZA GeoEnvironmental, Inc.
Job ID: 620-2595-1
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ENE
5030C	Purge and Trap	SW846	ENE

Protocol References:

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

Laboratory References:

ENE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: GZA GeoEnvironmental, Inc.
Project/Site: 92 Sunnyside Ave - Woonsocket, RI

Job ID: 620-2595-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-2595-1	MW-9	Water	01/12/22 11:17	01/12/22 15:38
620-2595-2	MW-4	Water	01/12/22 11:49	01/12/22 15:38
620-2595-3	MW-3	Water	01/12/22 12:35	01/12/22 15:38
620-2595-4	MW-2	Water	01/12/22 12:57	01/12/22 15:38
620-2595-5	MW-1	Water	01/12/22 13:29	01/12/22 15:38
620-2595-6	BD20220112	Water	01/12/22 08:00	01/12/22 15:38

620-2595 Chain of Custody

ıment Testing
New England

CHAIN OF CUSTODY RECORD

Page 1 of 1

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: Erik Belst
Telephone #: 401-421-4140
Project Mgr: Erik Belst

Invoice To: GZA
P.O No. ______ Quote # ______

Project No. 34450
Site Name: Sunnyside Ave.
Location: Woonsocket State: RI
Sampler(s): Ben Premus (BLR)

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_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=Compsite

List Preservative Code below: 2

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC 8260								Check if chlorinated
	MW-9	1/12/22	1117	G	GW	3	–	–	–	X								☐
	MW-4	↓	1149	G	GW	3	–	–	–	X								☐
	MW-3		1235	G	GW	3	–	–	–	X								☐
	MW-2		1257	G	GW	3	–	–	–	X								☐
	MW-1		1329	G	GW	3	–	–	–	X								☐
	BD20220112	1/12/22	0800	G	GW	3	–	–	–	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

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	1/12/22	1538	Observed 2.2
				Correction Factor +1
				Corrected 3.2
				IR ID # C

☒ EDD format: Excel, PDF
☒ E-mail to: erik.belst@gza.com

Condition upon receipt: Custody Seals ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample Shipping Address. 126 Myron Street • West Springfield, MA 01089 • 413-789-9018
Lab Address: 646 Camp Ave • North Kingstown, RI 02852
www.EurofinsUS.com/Spectrum

Rev. Jan 2020

Login Sample Receipt Checklist

Client: GZA GeoEnvironmental, Inc.

Job Number: 620-2595-1

Login Number: 2595
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	