



Proactive by Design



MONITORING REPORT – 2020

**642 Allens Avenue
Providence, Rhode Island**

March 9, 2021
GZA File No.: 03.0033554.01
RIDEM Case No. 98-004 / File No. SR-28-1152



PREPARED FOR:

Rhode Island Department of Environmental
Management (RIDEM)
Providence, Rhode Island

ON BEHALF OF:

nationalgrid

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March 9, 2021
File No. 03.0033554.01

Via E-Mail and U.S. Mail

Mr. Joseph Martella
Rhode Island Department of Environmental Management (RIDEM)
Office of Land Revitalization and Sustainable Materials Management
235 Promenade Street
Providence, Rhode Island 02908

Re: Monitoring Report – 2020
642 Allens Avenue
Providence, Rhode Island
RIDEM Case No. 98-004 / Site Remediation File No. SR-28-1152

Dear Mr. Martella:

On behalf of the Narragansett Electric Company d/b/a National Grid (National Grid), GZA GeoEnvironmental, Inc. (GZA) is pleased to present to the Rhode Island Department of Environmental Management (RIDEM) the attached *Monitoring Report* for the Former 642 Allens Avenue Manufactured Gas Plant (MGP) located at 642 Allens Avenue in Providence, Rhode Island (the Site). This report describes Site monitoring activities that were performed at the above referenced Site during 2020. As described in the attached report, these Site monitoring activities include routine shoreline observations, groundwater elevation and non-aqueous phase liquid gauging, and groundwater quality monitoring.

Should you have any questions or comments regarding the information presented herein, please do not hesitate to contact the undersigned at (401) 421-4140 or Ms. Amy Willoughby of National Grid at (781) 907-3644.

Very truly yours,
GZA GEOENVIRONMENTAL, INC.

Sophia Narkiewicz, P.E.

Project Manager

Margaret S. Kilpatrick, P.E.

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Senior Principal

Attachment: *Monitoring Report – 2020*

cc: Amy Willoughby, National Grid

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1.0 INTRODUCTION

On behalf of The Narragansett Electric Company (TNEC), d/b/a National Grid (National Grid), GZA GeoEnvironmental Inc. (GZA) has prepared this *Monitoring Report* describing activities performed at the Former 642 Allens Avenue Manufactured Gas Plant (MGP) located at 642 Allens Avenue in Providence, Rhode Island. The Site is also defined as Providence Tax Assessors Plat (A.P.) 101 Lot 1 and A.P. 56 Lot 5, 273, 316 and 317. These properties are collectively referred to herein as the “Site.” This report describes monitoring activities that were performed at the Site during 2020. As described further herein, annual monitoring performed in 2020 consisted of approximately monthly routine shoreline observations, semi-annual groundwater elevation/non-aqueous phase liquid (NAPL) gauging events, and an annual groundwater quality sampling event. **Figure C1 (Title Sheet and Index to Drawings)** presents the Site Locus Plan and **Figure 2 (Overall Aerial)** presents the location of the Site. **Figure N1 (General Notes and Legend)** was prepared to provide the legend and notes for the Site plans.

This report is subject to the Limitations presented in **Appendix A (Limitations)**.

1.1 SITE DESCRIPTION

The Site was the location of the Former 642 Allens Avenue MGP. The Site is now largely occupied with natural gas utility operations, which serve the City of Providence and the State of Rhode Island. The Site is located on the east side of Allens Avenue, northeast of the intersection of Allens Avenue and Terminal Road in the City of Providence, Rhode Island (refer to **Figure C1**). The majority of the Site is secured with a locked perimeter chain-link fence. The configuration of this perimeter fencing is shown on **Figure 3A (Exploration Location Plan – Former CNG Facility and Natural Gas Regulation Facility)** and **Figure 3B (Exploration Location Plan – LNG Facility and Holcim Cement Facility)**.

The approximately 41-acre Site is identified in the City of Providence Tax Assessor's Office as Assessors Plat (A.P.) 56, Lots 5, 273, 316, and 317, and as A.P. 101, Lot 1. The entirety of the Site is currently owned by TNEC d/b/a National Grid (National Grid). National Grid LNG, Inc. (NGLNG) holds a lease on A.P. 56 Lot 316 and Holcim US, Inc. (Holcim) holds a lease on A.P. 56 Lot 273. The entirety of the Site is zoned by the City of Providence as W-3 (Port/Maritime Industrial Waterfront District). The W-3 Port/Maritime Industrial Waterfront District is intended “to promote maritime industrial and commercial uses within the areas of Providence’s waterfront, protect the waterfront as a resource for water-dependent industrial uses, and facilitate the renewed use of a vital waterfront”. The current Site layout and key features are shown on **Figure 3A** and **Figure 3B**.

For the purpose of this report, the Site has been subdivided into four areas based on current use. **Figure 3A** and **Figure 3B** presents the location and configuration of the following areas:

- Former Compressed Natural Gas (CNG) Facility (portion of A.P. 101 Lot 1);
- Natural Gas Regulation Facility (portion of A.P. 101 Lot 1 and A.P. 56 Lot 5);
- Liquefied Natural Gas (LNG) Facility (A.P. 56 Lot 316); and
- Holcim Cement Facility (A.P. 56 Lots 273 and 317).



The following table summarizes the five parcels that make up these four Site areas. Parcel locations are also shown on **Figure 2**.

A.P.	Lot	Lot Size (Acres)	Current Owner	Address	Current Use(s)
101	1	11.35	TNEC	642 Allens Avenue 670 Allens Avenue	Natural Gas Construction Storage Natural Gas Regulation and Distribution Former CNG Fueling Station
56	5	8.90	TNEC	642 Allens Avenue	Natural Gas Construction Storage Natural Gas Regulation and Distribution
56	273	3.90	TNEC	139 Terminal Road	Cement Storage and Distribution
56	316	16.36	TNEC	121 Terminal Road	LNG Facility
56	317	0.49	TNEC	121 Terminal Road	Access Road

The Site has frontage on Allens Avenue to the west and is bounded to the east by the Providence River. It is adjoined to the northwest by Triton Terminaling, LLC, and to the south by Terminal Road, the Former Sun Oil/Providence Port facility, and New England Bituminous Terminal Corporation. **Figure 2** presents the location of the Site and these abutting lots. The area surrounding the Site is industrial in nature, with parcels zoned W-3 or M-2 (both industrial type zoning). The nearest residential lot is located over 1,000 feet to the south of the Site.

Based on review of information presented in the Environmental Resource map maintained by RIDEM (<http://www.dem.ri.gov/maps/>), groundwater in the area of the Site is classified as "GB," which indicates that groundwater may not be suitable for public or private drinking water use without treatment due to known or presumed degradation.

1.2 SITE BACKGROUND

Historical Site operations have included the former MGP, former liquid petroleum gas (LPG) / propane gas storage and distribution, and former petroleum storage and distribution. **Figure 3A** and **Figure 3B** present a compilation of relevant historical features and structures associated with past Site operations.

The former MGP operated from 1910 to 1953 and generated gas using the coal carbonization, carbureted water gas, oil gas and producer gas processes. Other by-products, such as tar, ammonia, cyanogen, naphthalene, light oils, hydrogen sulfide, and spent oxides, were removed during the process of gas condensing and purifying in the Former Condenser House (Former Compressor Building No. 1) and the Former Coal Gas Purifier House (present Compressor Building No. 2). Gasification operations were generally conducted proximate to the current LNG facility (**Figure 3B**), with regulating and distribution of the gas closer to the current Natural Gas Regulating Facility (**Figure 3A**).

The LPG plant operated from 1952 to mid-1960s and the propane gas storage and distribution plant operated from the 1960s to the 1980s. These operations supplemented manufactured and natural gas during peak gas demands. LPG/propane operations were generally conducted proximate to the center of the Site near the Former Propane House (**Figure 3A** and **Figure 3B**).

Petroleum products used in the production of manufactured gas was stored in two aboveground storage tanks located at the northeast corner of the Site (proximate to the current LNG tank – **Figure 3B**). Reportedly, Providence Gas Company also constructed a 150,000-gallon oil or tar storage facility in 1953 (location unknown), bringing the total on-Site storage capacity to 2,150,000 gallons, at the time the MGP operations ceased. Additionally, Gulf Oil Corporation leased a portion of the Site during 1957 and built four aboveground storage tanks (ASTs) with an aggregate storage capacity of 420,000 gallons of kerosene on the premises (exact location of all tanks unknown, although known to be proximate to the existing LNG facility, the location of one of the tanks is shown on **Figure 3B**).

GZA conducted supplemental investigation activities at the Site in 2014, with follow up activities conducted in 2016 and 2017. A summary of these activities, relevant regulatory history of the Site and other background information will be



included in an addendum to the April 2003 Site Investigation Report (SIR). This SIR Addendum is expected to be submitted to RIDEM in 2021. In order to accommodate ongoing projects at the Site, forty-four (44) monitoring wells were decommissioned in 2016. Until these projects are complete, an interim groundwater monitoring program will be performed annually.

2.0 RESULTS OF MONITORING PROGRAM

This section presents the results of the 2020 monitoring program. As indicated previously, this monitoring program consists of monthly shoreline observations, semi-annual groundwater elevation monitoring and NAPL monitoring/recovery, and annual groundwater quality sampling and analysis.

2.1 SHORELINE OBSERVATIONS

Between January and December 2020, the shoreline adjacent to the Site was inspected for the presence of sheens in the Providence River on at least a monthly basis. Portions of the Site's shoreline are surrounded by both hard boom and absorbent sausage boom to contain any observed sheen. This boom has been in place since at least 2002. The current boom configuration is shown on **Figure 3B**. Sheens have been observed intermittently proximate to the shoreline in the cove area. More significant sheens have generally been observed at mid-tide only and generally consist of dull to bright plates of sheen. Sheens observed at mid to low tide generally consist of slight and minor dull to bright plates of sheen. No sheens were observed at high tide during the 2020 monthly shoreline observations. A summary of sheen observations proximate to the cove area is presented in **Table 1 (Summary of Sheen Observations – 2011 to 2020)**.

2.2 NAPL AND GROUNDWATER ELEVATION MONITORING

Comprehensive gauging rounds of the groundwater monitoring well network are conducted semi-annually for the presence of NAPL and collection of groundwater elevation readings. Gauging was performed in June 2020 and November 2020. **Figure 4 (Groundwater Monitoring Wells)** presents the location of all monitoring wells at the Site and **Figure 5 (Shallow Groundwater Contours (November 2020))** presents the shallow groundwater elevations contours based on measurements collected in November 2020. In addition, monthly NAPL measurements were collected from GZ-307S to delineate the extent of NAPL observations. GZ-307S is located proximate to the northern property line near the Gas Control Building (refer to **Figure 3A**). During the gauging events, depth to groundwater and measurements of the presence and thickness of NAPL were recorded. NAPL measurements were gauged using an oil-water interface probe. To gauge the presence of LNAPL, the probe was lowered into the well until the probe's continuous alarm indicated the presence of LNAPL. When the probe passes through the LNAPL into groundwater, an intermittent alarm is triggered. This information was used to gauge the thickness of LNAPL. Gauging for the presence of dense non-aqueous phase liquid (DNAPL) was conducted in the same manner as the LNAPL. Once the continuous alarm of the interface probe was heard, measurements were recorded to the bottom of the well to record product thickness. Note, because the wells serve to collect these materials, NAPL thickness measurements in groundwater monitoring wells are typically greater than the actual thickness of NAPL in the surrounding formation.

Consistent with previous events, measurable NAPL was only detected in GZ-307 during this annual monitoring period. However, evidence of sheen was observed on purge water from monitoring wells GZA-201, GZ-301D and VHB-1 during the November 2020 groundwater sampling event. Refer to groundwater sampling logs in **Appendix B (Groundwater Sampling Low Flow Logs)** for additional information.

The following tables were prepared to present gauging data collected:

- **Table 2 (Summary of Groundwater and NAPL Gauging Results);**
- **Table 3 (Historical Light Non-Aqueous Phase Liquid (LNAPL) Well Gauging Data);**



- **Table 4** (*Historical Dense Non-Aqueous Phase Liquid (DNAPL) Well Gauging Data*); and
- **Table 5** (*LNAPL Gauging and Recovery – GZ-307S*).

2.2.1 LNAPL Observations and Recovery

Observations of LNAPL in groundwater monitoring wells has been limited to certain isolated areas of the Site, generally in areas that were formerly utilized for gas manufacturing. As indicated in **Table 2** and **Table 4**, between November 2001 and November 2020, only fifteen (15) of the wells had product present at greater than or equal to 0.01 feet. These well locations are presented on **Figure 6** (*Historical NAPL Thickness (≥0.01 feet) (2001-2020)*). The majority of LNAPL detections were less than 0.40 feet in thickness.

GZA-307S was the only monitoring well to contain measurable LNAPL in 2020 as presented on **Figure 7** (*2020 NAPL and Groundwater Analytical Data*).

GZ-307S was installed in 2014 to delineate the extent of LNAPL observed along the northern property line. During 2020, LNAPL was detected in this well at thicknesses ranging from trace to 0.04 feet, and no LNAPL was detected during the well's December 2020 gauging. Due to the limited thickness (less than 0.1 feet), no measurable quantity of LNAPL/groundwater mixture was recovered from GZ-307S during 2020.

2.2.2 DNAPL Observations

As indicated in **Table 2** and **Table 4**, between November 2001 and November 2020, DNAPL was encountered in only one (1) monitoring well (RCA-3), located in the north-central portion of the Site proximate to the cove, as shown on **Figure 3B**. With the exception of 0.17 feet detected in November 2001, DNAPL observations at this location have been limited to trace amounts. In 2014, a deeper monitoring well was installed (GZ-313D) near the location of RCA-3 to assess the vertical extent of DNAPL in this area. DNAPL was not encountered in GZ-313D between 2014 and 2016. Both RCA-3 and GZ-313D were decommissioned in July 2016. DNAPL was not encountered in any remaining monitoring wells in 2020.

2.3 GROUNDWATER FLOW DIRECTION

Comprehensive elevation gauging rounds of the groundwater monitoring well network were performed in June 2020 and November 2020. These depths to groundwater readings were used to calculate the elevation of the groundwater table at each well location. Monitoring well reference elevation and depth to groundwater measurements are presented in **Table 2**. **Table 2** also includes groundwater elevation data collected by GZA since July 2011 during our initial assessment of well conditions at the Site. The comprehensive groundwater elevations recorded during the November 2020 gauging round were used to prepare the shallow groundwater contours presented on **Figure 5**.

Site groundwater elevations are tidally influenced and have been observed to fluctuate approximately 3 feet between mean low and high water. Groundwater was encountered in many of the explorations at the Site at depths ranging from approximately 3 to 13 feet bgs (ranging from elevation 7 feet NAVD 88 to 1 foot NAVD 88), with shallower groundwater being encountered close to the Providence River at the LNG Facility. Shallower groundwater was also encountered proximate to the northern Site boundary in the Natural Gas Regulation Facility. Groundwater in this area is likely influenced by utility corridors. As presented on **Figure 5**, groundwater beneath the Site flows from west to east towards the Providence River, consistent with surrounding topography.

2.4 GROUNDWATER SAMPLING TECHNIQUES

As shown on **Figure 4**, the groundwater monitoring well network consisted of thirty-one (31) groundwater monitoring wells in 2020. Consistent with the 2019 and 2018 monitoring, in November 2020, groundwater quality samples were collected from



twelve (12) monitoring wells: RCA-1, RCA-12R, RCA-15, RCA-31, RCA-36, VHB-1, VHB-20, GZA-201, GZ-301D, GZ-304D, GZ-309D, and GZ-319D. These well locations were chosen to provide a representative evaluation of overall Site groundwater quality.

During the November 2020 round, groundwater samples were collected in general accordance with EPA's September 19, 2017 Low Stress (low flow) Purging and Sampling Procedure. Prior to sampling, the depth to static groundwater and any NAPL present was measured in each well using an ORS electronic oil/water interface probe. During groundwater sampling, a variable speed peristaltic pump was utilized to control the rate of purging. Dedicated 1/4-inch polyethylene tubing installed in each of the existing wells was utilized as the intake and discharge tubing for the pumps. This tubing has the potential to become brittle when exposed to UV light (sunlight) and where necessary this tubing is typically replaced. No tubing was in need of replacement during the November 2020 sampling round due to sunlight exposure. Groundwater sampling logs are included in **Appendix B**. Pharmaceutical grade tubing was utilized 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. If NAPL was noted in the monitoring well prior to sampling, new tubing was installed in the monitoring well. In order to limit the potential for LNAPL to enter the sampling tubing during the collection of the sample, a peristaltic pump was used to force air through the tubing as it passed through the LNAPL/groundwater interface. If DNAPL was noted in the well, the sampling tubing was installed in these wells carefully so that the DNAPL layer was not intercepted.

During sampling, field readings were recorded for pH, temperature, specific conductance, oxidation reduction potential (ORP) and dissolved oxygen (DO) using a YSI Professional Plus® portable water quality meter with a flow-through cell. A LaMotte Turbidimeter® was used to monitor the turbidity. These field readings are presented in the field sampling logs, attached as **Appendix B**. As indicated on the logs, the monitoring wells were generally pumped until field screening parameters were stabilized prior to collecting the samples.

All recovered groundwater was collected and containerized in an appropriately labeled 55-gallon drums or other equivalent container for off-Site disposal. All investigation derived waste (IDW) was transported off-Site by Clean Harbors Environmental Services, Inc. (CHES) to their facility in Braintree, Massachusetts or another certified facility. Copies of shipping records for the IDWs exported in 2020 are included in **Appendix C (Investigation Derived Waste Shipping Records)**.

Samples were placed in laboratory-provided, hydrochloric acid-preserved 40 mL glass vials with septa caps for VOC analysis via EPA Method 8260B. Samples were then packed in an ice chest and transported under chain-of-custody protocol to ESS Laboratory located in Cranston, Rhode Island.

The analytical results from these groundwater monitoring activities are provided in **Appendix D (Laboratory Reports)** and **Table 6 (Summary of 2020 Groundwater VOC Analytical Results)**.

QA/QC samples were also collected and analyzed during these groundwater sampling activities. These QA/QC procedures and samples are summarized below in Section 2.5.

2.5 QUALITY ASSURANCE/QUALITY CONTROL SAMPLING AND ANALYSIS

During the November 2020 sampling round, all groundwater samples were submitted to ESS Laboratory in Cranston, Rhode Island for analysis. The samples were transported to the laboratory under chain of custody protocol.

Field duplicate samples were collected and analyzed to evaluate the reproducibility of the sampling methods. Duplicate groundwater samples were collected sequentially after achieving stabilization of the geochemical parameters. Duplicate samples were collected at a frequency of 1 duplicate sample per 20 samples collected on average. Duplicate groundwater sampling results are included in the applicable summary table, with a reference to the applicable sample location in the notes section. A VOC trip blank accompanied each cooler of groundwater samples to the laboratory and was analyzed for the presence of VOCs to evaluate potential cross contamination during sample transport.



The analytical results and chain-of-custody forms are presented in **Appendix D** and **Table 7** (*Summary of Groundwater QA/QC VOC Analytical Results*).

The following summarizes the groundwater QA/QC samples for the 2020 sampling event:

QA/QC Sample Type	Matrix	Number of Samples	Analysis / Comment
Samples	Groundwater	12	VOCs
Field Duplicates	Groundwater	1	VOCs
Trip Blanks	Groundwater	1	VOCs

Upon receipt, GZA audited the analytical data to assess whether the analytical data met the data quality objectives of the project. This audit included evaluation of QA/QC samples (e.g., Lab Control Samples/Lab Control Sample Duplicates, Method Blanks, Field Blanks, and Field Duplicates) to evaluate the representativeness, comparability, completeness, precision, accuracy, and sensitivity of the analytical data.

The groundwater analytical results were generally useable to meet the project data quality objectives with no unusual observations noted.

2.6 GROUNDWATER ANALYTICAL RESULTS

Analytical data from the sampling event is summarized in **Table 6** and **Figure 7**. The table includes comparisons to Method 1 (or Method 2 as appropriate) GB Groundwater Objectives and Upper Concentration Limits (UCL). In general, the analytical results reported during the 2020 round was consistent with levels detected previously.

Groundwater quality at the Site is generally characterized by a few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene¹, primarily in areas of the Site where former MGP features were located: downgradient of former tar/ammonia pits (VHB-7), proximate to the former purifier building (RCA-28), proximate to the former gasholder No. 18 (VHB-10), proximate to former gasholder No. 16 (GZ-314S/D and GZ-315D) and downgradient of the former ammonia works buildings (VHB-21/GZ-318D). The presence of these compounds in groundwater samples is typical for former MGP sites and consistent with historical groundwater sampling results for this Site. All of the detected compounds were below the GB Groundwater Objectives during the 2020 sampling round. No groundwater samples were collected from the Holcim Cement Facility portion of the Site². In addition, no GB UCL exceedances were detected.

The following sections discuss the dissolved-phased VOC analytical results for this sampling event as compared to the Method 1 (or Method 2 as appropriate) objectives by Site area.

2.6.1 Former CNG Fueling Station

The Former CNG Fueling Station area is primarily grassed with a smaller portion of paved area. The Former CNG fueling station and Former CNG buildings previously located in this area were removed in 2020 as part of the Former CNG Dispensing Station Demolition Project. Four (4) wells are located in this area (RCA-12R, GZ-301D, GZ-302S and GZ-302D). Two (2) monitoring wells (RCA-12R and GZ-301D) were sampled from this area during the 2020 monitoring event, as shown on **Figure 7**, with results presented in **Table 6**.

The following VOCs were detected in the sample collected from RCA-12R in the Former CNG Fueling Station area during the 2020 sampling round: cis-,1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride. All of the VOC results in

¹ As noted in previous reports, vinyl chloride was also detected in a few Site wells in excess of the GB Groundwater Objective. Vinyl chloride is not a Site compound of concern and is likely originating upgradient of the Site.

² Note that there are no active monitoring wells located within the Holcim Cement Facility.



the sample collected from GZ-301D were below the method detection limit. No VOCs were detected above the GB Groundwater Objectives. The following is a summary of VOCs detected in 2020:

- Cis-1,2-dichlorobenzene was detected in the sample collected from RCA-12R at a concentration of 0.0201 mg/L;
- Tetrachloroethene was detected in the sample collected from RCA-12R at a concentration of 0.0016 mg/L;
- Trichloroethene was detected in the sample collected from RCA-12R at a concentration of 0.0059 mg/L; and
- Vinyl chloride was detected in the sample collected from RCA-12R at a concentration of 0.0014 mg/L.

Historically, exceedances of the Method 1/2 GB Groundwater Objectives in this area have been limited to vinyl chloride in samples collected from RCA-12R and GZ-301D. These monitoring wells are located proximate to Allens Avenue and the property line and groundwater contours (**Figure 5**) indicate that groundwater flow originates upgradient. Additionally, the above detection of vinyl chloride, cis-1,2-dichloroethene, tetrachloroethene and trichloroethene are not compounds typically associated with former MGP operations. Therefore, these chlorinated VOC detections are likely due to upgradient sources.

2.6.2 Natural Gas Regulation Area

The Natural Gas Regulation Area is covered primarily by grasses or crushed stone, with some paved areas such as the parking lot and roadways. The gas operations building, Compressor Building No.2 and active natural gas regulator buildings are located in this area. Thirteen (13) wells are located in this area (RCA-1, RCA-15, RCA-17, VHB-1, GZ-303S, GZ-303D, GZ-304D, GZ-305S, GZ-306S, GZ-307S, GZ-308S, GZ-309D, and Unknown-2). Five (5) monitoring wells (RCA-1, RCA-15, VHB-1, GZ-304D and GZ-309D) were sampled from this area during the November 2020 monitoring event.

VOCs were detected in two (2/5) samples collected in the Natural Gas Regulation Area during the 2020 sampling round (VHB-1 and GZ-304D). The following VOCs were detected: benzene, cis-1,2-dichloroethene, isopropylbenzene, naphthalene, n-propylbenzene, and sec-butylbenzene. None of the VOCs detected were above the GB Groundwater Objectives. The following is a summary of VOCs detected in 2020:

- Benzene was detected in the sample collected from GZ-304D at a concentration of 0.0016 mg/L;
- Cis-1,2-dichloroethene was detected in the sample collected from GZ-304D at a concentration of 0.0016 mg/L;
- Isopropylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.0111 mg/L;
- Naphthalene was detected in the sample collected from GZ-304D at a concentration of 0.0232 mg/L;
- N-propylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.0014 mg/L; and
- Sec-butylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.0029 mg/L.

Historically, few isolated exceedances of the Method 1/2 GB Groundwater Objectives for benzene and naphthalene have been detected in the Natural Gas Regulation Area in areas where former MGP features were located: downgradient of former tar/ammonia pits (VHB-7), proximate to the former gasholder No. 18 (VHB-10) and downgradient of the former ammonia works buildings (VHB-21/GZ-318D). The presence of these compounds in groundwater samples is typical for former MGP sites.

The detection of cis-1,2-dichloroethene at well GZ-304D is not a compound typically associated with former MGP operations. This well is located proximate to Allens Avenue and the property line and groundwater contours (**Figure 5**) indicate that groundwater flow originates upgradient. Based on anticipated groundwater flow, this chlorinated VOC detection is likely due to an upgradient source.

2.6.3 LNG Facility

The LNG Facility area is covered with concrete, crushed stone or asphalt areas. The LNG tank, LNG fueling station and LNG facility control buildings are located in this area. Fourteen (14) wells are located in this area (RCA-6, RCA-22, RCA-28, RCA-31, RCA-34, RCA-36, VHB-20, GZ-101, GZ-201, GZ-319D, ESS RW-3, ESS RW-4, ESS RW-5 and ESS RW-6). Five (5) monitoring wells (RCA-31, RCA-36, VHB-20, GZ-201 and GZ-319D) were sampled from this area during the November 2020 monitoring event.



VOCs were detected in four (4/5) samples collected in the Natural Gas Regulation Area during the 2020 sampling round (VHB-20, RCA-36, GZ-201 and GZ-319D). The following VOCs were detected: 1,2,4-trimethylbenzene, benzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, Styrene, and xylenes. None of the VOCs were detected at concentrations that exceed the applicable Method 1/2 GB Groundwater Objectives. The following is a summary of VOCs detected in 2020:

- 1,2,4-Trimethylbenzene was detected in the sample collected from monitoring well RCA-36 at a concentration of 0.0101 mg/L;
- Benzene was detected in samples collected from three (3) monitoring wells (VHB-20, RCA-36 and GZ-319D) at concentrations ranging from 0.0167 to 0.0888 mg/L;
- Ethylbenzene was detected in the sample collected from monitoring well RCA-36 at a concentration of 0.0024 mg/L;
- Isopropylbenzene was detected in samples collected from three (3) monitoring wells (RCA-36, GZ-201 and GZ-319D) at concentrations ranging from 0.0016 to 0.0061 mg/L;
- Naphthalene was detected in samples collected from two (2) monitoring wells (GZ-201 and RCA-36) at concentrations ranging from 0.0016 to 0.0031 mg/L;
- N-butylbenzene was detected in the sample collected from monitoring well GZ-201 at a concentration of 0.0026 mg/L;
- N-propylbenzene was detected in samples collected from two (2) monitoring wells (GZ-201 and RCA-36) at concentrations ranging from 0.0034 to 0.0037 mg/L;
- Sec-butylbenzene was detected in the sample collected from monitoring well GZ-201 at a concentration of 0.0034 mg/L;
- Styrene was detected in the sample collected from GZ-319D at a concentration of 0.0021 mg/L; and
- Total Xylenes were detected in the sample collected from monitoring well RCA-36 at a concentration of 0.00359 mg/L.

Historically, few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene have been detected in the LNG Facility in areas of the Site where former MGP features were located: proximate to the former purifier building (RCA-28) and proximate to former MGP features (RCA-22, RCA-36, GZ-314S/D and GZ-315D). The presence of these compounds in groundwater samples is typical for former MGP sites.

2.7 INVESTIGATION DERIVED WASTE MANAGEMENT

All groundwater generated during monitoring activities performed in 2020 were placed into 55-gallon drums for subsequent off-Site disposal. The resulting drums were labeled and temporarily stored on-Site. All IDWs removed from Site up to this point in time (December 2020) were transported off-Site by CHES to their facility in Braintree, Massachusetts. Copies of shipping records for the IDWs are included in **Appendix C**.

3.0 SUMMARY AND CONCLUSIONS

As part of the annual Site monitoring events in 2020, twelve (12) monitoring wells were sampled in November 2020 for VOCs; all accessible wells were gauged to determine the groundwater elevation and presence of NAPL on an approximate semi-annual basis; and shoreline observations were made on an approximately monthly basis throughout the year. In general, observations made, and the results of analytical testing were consistent with historical results, as summarized below:

- Sheen observations were consistent with historical observations and were limited to the cove in the northwestern portion of the Site. Sheen observations were limited to several localized and immediate areas of the shoreline and were observed at various tidal stages, with most observations at low tide.



- NAPL Observations:

- Trace amounts up to 0.04 feet of LNAPL was detected in GZ-307S. NAPL recovery was not attempted at monitoring well GZ-307S during 2020 because of the limited thickness of NAPL detected.
- Observations of both LNAPL continue to be very localized and do not indicate the presence of significant contiguous source layers in the subsurface.

- Groundwater Quality:

- Historical groundwater quality at the Site is generally characterized by a few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene, primarily in areas of the Site where former MGP features were located. The presence of naphthalene, benzene and ethylbenzene in groundwater samples is typical for former MGP sites.
- There were no GB groundwater exceedances during the 2020 monitoring period.
- Certain chlorinated VOCs were detected in wells located proximate to Allens Avenue and the western property line. These detections are likely due to upgradient sources and are not compounds typically associated with former MGP operations.



TABLES

TABLE 1
SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
9/22/2011	8:40	Low	Along shoreline stretching from RCA-40 to RCA-3.	Small dull spots.
9/22/2011	9:00	Low	Outfall proximate to Motiva property.	Moderate dull bands.
9/22/2011	9:15	Low	Along shoreline stretching from RCA-40 to RCA-3.	Large dull bands and moderate dull spots.
10/28/2011	9:00	High	No sheens observed. Boom was repaired	
	14:30	Mid-Low	No sheens observed.	
12/22/2011	10:40	Low	Outside of Boom, along shoreline stretching from RCA-5 to RCA-20.	Moderate dull bands and small dull spots.
12/22/2011	10:40	Low	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Large dull bands and moderate dull spots.
12/22/2011	11:00	Low	Outfall proximate to Motiva property.	Very small dull spots
2/3/2012	12:00	Low-Mid	Outside of Boom, north of the RIPDES outfall (within cove).	Moderate dull spots
2/8/2012	15:10	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Small dull spots.
2/15/2012	11:55	Mid	Outside of Boom, along shoreline stretching from RCA-5 to RCA-20.	Small dull spots.
2/15/2012	11:55	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Large bright bands.
2/23/2012	15:00	Low	No sheens observed.	
3/2/2012	14:20	High	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Minor to moderate dull spots and bands of sheen
3/2/2012	14:30	High	Outfall proximate to Motiva property.	Large bright bands.
3/9/2012	13:10	Low	Outside of boom, along shoreline stretching from CHES RW-5 to RW-3.	Moderate to minor dull spots of sheen
3/9/2012	13:05	Low	Outfall proximate to Motiva property.	Slight bright bands of sheen
4/13/2012	10:53	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Moderate to minor dull spots of sheen
4/13/2012	10:58	Mid	Outfall proximate to Motiva property.	Slight bright bands of sheen
5/16/2012	13:45	Mid-High	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Minor to moderate dull bands of sheen
5/16/2012	13:45	Mid-High	Outfall proximate to Motiva property.	Moderate bright bands of sheen
6/29/2012	9:35	Low	Outside of boom, near LNG tank	Bright large sheen spot
6/29/2012	9:35	Low	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Bright to dull bands of sheen
6/29/2012	9:45	Low	Outfall proximate to Motiva property.	Slight dull spots
7/19/2012	9:50	Low	Outside of Boom, north of the RIPDES outfall (within cove) to Propane House	Bright moderate sheen spots
7/19/2012	9:50	Low	Outfall proximate to Motiva property.	Bright moderate sheen spots
8/2/2012	8:45	High	Within the boom, along shoreline at CHES RW-4. Boom was repaired.	Bright moderate sheen bands
8/24/2012	10:10	Mid	Outside of boom, near CHES RW-4	Bright moderate sheen spot
8/24/2012	10:10	Mid	Within the boom, from CHES RW-4 to Propane House	Bright moderate sheen spots and bands
8/24/2012	10:10	Mid	Outside of boom, from Propane House to RCA-3	Bright slight sheen spots and bands
8/24/2012	10:10	Mid	Outfall proximate to Motiva property.	Bright slight sheen spots and bands
9/6/2012	No sheens observed at high tide.			
9/13/2012	11:20	Low	Within the boom, near CHES RW-4	Bright slight sheen bands
9/13/2012	11:45	Low	Outside of boom, near CHES RW-4	Bright slight sheen spot
9/13/2012	11:45	Low	Within the boom, between CHES RW-3 and CHES RW-4	Bright moderate bands and spots of sheen
9/25/2012	14:00	Mid	Outfall proximate to Motiva property.	Slight bright bands of sheen
10/31/2012	10:15	High	Within the boom, near CHES RW-4	Slight bright spots of sheen
11/19/2012	No sheens observed at high tide.			
11/20/2012	16:20	Mid-High	Within the boom, between CHES RW-3 and CHES RW-4. Boom was repaired.	Moderate long bright bands of sheen
12/20/2012	12:00	Mid-High	No sheens observed.	

TABLE 1
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642 Allens Avenue
Providence, Rhode Island

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
1/4/2013			No sheen observed at high tide.	
2/1/2013			No sheens observed at high tide. High wind was also noted.	
2/12/2013			Boom was repaired.	
2/26/2013	12:48	Low	Within the boom, near CHES RW-4	Slight bright spots of sheen
2/26/2013	12:52	Low	Within the boom, between CHES RW-3 and CHES RW-4	Slight bright spots of sheen
2/26/2013	12:56	Low	Outfall proximate to Motiva property.	Moderate long bright bands of sheen
3/22/2013	11:22	Low	Within the boom, between CHES RW-3 and CHES RW-4	Moderate bright bands of sheen
3/25/2013	11:00	Low	Within the boom, within sediments exposed at low tide between CHES RW-3 and CHES RW-4	Slight sheen spots
4/2/2013	11:00	Mid	Within the boom, near CHES RW-4	Bright bands of sheen
4/24/2013			No sheens observed at high tide.	
4/30/2013			No sheens observed at high tide.	
5/6/2013			No sheens observed at high tide.	
5/14/2013	8:15	Mid-High	Within the boom, between CHES RW-3 and CHES RW-4	Bands of dull sheen
5/24/2013			No sheens observed at mid-high tide.	
5/31/2013	8:00	Low	Within the boom, between CHES RW-3 and CHES RW-5	Slight dull bands and spots
5/31/2013	9:45	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Slight to moderate dull bands and spots
5/31/2013	9:50	Mid	Within the boom, within sediments exposed at mid tide between CHES RW-3 and CHES RW-4	Bright spots of sheen
6/2/2013			No sheens observed at mid tide. High wind was also noted.	
6/3/2013	9:10	Low	Outside the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Bright to dull spots and blebs of sheen
6/3/2013	9:10	Low	Within the boom, between CHES RW-3 and CHES RW-5	Moderate dull bands of sheen
6/3/2013	12:30	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Slight dull bands of sheen
6/3/2013	13:15	Mid	Outside the boom, along the edge of the LNG portion of the property, directly adjacent to the pathway. The sheen was noted as originating from the western part of the cove.	Slight dull bands of sheen
6/10/2013			No sheens observed at high tide.	
6/11/2013	12:30	Mid-High	Within the boom, between CHES RW-3 and CHES RW-5	Moderate bright bands of sheen
6/13/2013	14:25	Mid	Within the boom, proximate to CHES RW-5	Moderate dull to bright bands and spots
6/19/2013			No sheens observed at high tide.	
6/20/2013	8:30	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Moderate bright bands of sheen
6/25/2013	11:00	High	Within the boom, near CHES RW-4	Slight bright spots of sheen
7/31/2013			No sheens observed at high tide.	
8/28/2013	12:30	Mid-High	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots
9/5/2013	15:06	Low	Within the boom, near CHES RW-4	Bright to dull spots and blebs of sheen
9/27/2013			No sheens observed at high tide. High wind was also noted.	
10/30/2013	8:30	Mid	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots
11/19/2013			No sheens observed at high tide. High wind was also noted.	
12/20/2013	10:15	Mid - Low	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots

TABLE 1
SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed	
1/27/2014	9:53	Low	Outfall proximate to Motiva property.	Slight bright bands of sheen	
2/25/2014	14:00	Mid - High	Within the boom, between CHES RW-3 and CHES RW-4	Slight dull bands of sheen	
3/20/2014	9:15	Mid - High	Within the boom, between CHES RW-3 and CHES RW-5. Boom was repaired.	Moderate long dull bands of sheen	
4/29/2014	12:30	Mid-Low	Within the boom, between CHES RW-4 and CHES RW-5	Slight dull bands of sheen	
	12:40		Outfall proximate to Motiva property.	Slight bright spots of sheen	
5/22/2014	No sheens observed at high tide. High wind and rain were also noted.				
6/3/2014	No sheens observed at high tide.				
7/24/2014	No sheens observed at high tide.				
8/24/2014	No sheens observed at high tide. High wind was also noted.				
9/24/2014	10:25	High-Mid	Within the boom, near CHES RW-3	Slight dull sheen spots and bands	
	10:30		Within the boom, near Propane House	Moderate dull to bright bands and spots	
10/4/2013	Boom was repaired.				
10/30/2014	7:30	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Slight bands of dull sheen	
			Within the boom, near CHES RW-3	Strong bright bands of sheen	
11/13/2014	No sheens observed at high tide. Boom was repaired.				
12/12/2014	14:00	Mid	Within the boom, near CHES RW-3	Slight dull bands of sheen	
1/29/2015	No sheens observed at mid tide.				
2/25/2015	No sheens observed. Cove completely frozen over.				
3/23/2015	No sheens observed at high tide. High wind was also noted.				
4/9/2015	No sheens observed at high tide. High wind was also noted. Hard boom and absorbent boom were replaced.				
5/22/2015	7:43	Low	Within the boom, near CHES RW-3	Very slight bright spots	
6/17/2015	No sheens observed at mid tide. High wind was also noted.				
7/17/2015	11:29	Mid	Within the boom, between CHES RW-3 and RCA-5	Moderate to bright spots of sheen	
8/28/2015	12:20	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Moderate dull spots of sheen	
9/16/2015	9:40	Mid-High	Within the boom, near CHES RW-3	Slight dull bands of sheen	
10/14/2015	No sheens observed at high tide.				
11/17/2015	No sheens observed at high tide. Boom was repaired.				
12/30/2015	No sheens observed at high tide.				
1/29/2016	No sheens observed at mid tide.				
2/22/2016	12:00	Mid-High	Within Boom near CHES RW-3	Slight sheen spots	
3/3/2016	Boom was repaired.				
3/16/2016	8:30	Mid-High	Within Boom between CHES RW-3 and CHES RW-5	Minor sheening. Dull to bright streaks of sheen	
4/28/2016	3:30	Mid-High	Within Boom near CHES RW-3	Bright Plates/Streaks of Sheen	
5/19/2016	11:00	Mid-Low	Within Boom near CHES RW-3	Dull plates of sheen	
6/10/2016	No sheens observed at mid-high tide.				
7/13/2016	Boom was repaired.				
7/26/2016	10:00	Low	Within Boom near CHES RW-3	Slight sheen	
8/30/2016	13:00	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Plates of sheen	
9/16/2016	9:00	High	Within Boom	Slight Sheen (Streaks)	
10/30/2016	No sheens observed				
11/30/2016	11:00	Mid	Within Boom near CHES RW-3	Platlets of sheen	
12/13/2016	11:45	No sheen observed at low tide			

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SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
1/31/2017			No sheens observed at mid tide	
2/23/2017			Boom was repaired.	
2/27/2017	9:00	Mid-Low	Within Boom near CHES RW-3	Streaks of sheen
3/24/2017			No sheens observed at high tide	
4/28/2017			No sheens observed at high tide	
5/5/2017			No sheens observed at high tide	
6/7/2017			Boom was repaired.	
6/30/2017			No sheens observed at high tide	
7/27/2017			No sheens observed at high tide	
8/1/2017	16:00	High	Within Boom near CHES RW-3	Some plates of sheen
9/1/2017	12:50	Mid	Within Boom near CHES RW-3	Dull streaks of sheen
9/29/2017	11:00	Mid-High	Within Boom near CHES RW-3	Some streaks of sheen
10/6/2017			Boom was repaired.	
10/24/2017			No sheens observed at high tide	
11/21/2017			No sheens observed at high tide	
12/21/2017			No sheens observed at low tide	
1/24/2018	13:00		No sheens observed at high tide	
2/21/2018	12:00		No sheens observed at high tide	
3/20/2018	11:00		No sheens observed at high tide	
4/12/2018			Boom was repaired in response to storm damage.	
4/26/2018	7:00		No sheens observed at high tide	
5/15/2018	14:00		No sheens observed at low tide	
6/28/2018	14:00		No sheens observed at low tide	
7/30/2018	13:00	Mid	Along shoreline.	Some streaks of sheen, dull to bright plates
8/30/2018	9:30	Mid-high	Between hard boom and shore	Dull streaks of sheen
10/1/2018	7:00	Low	Between hard boom and shore	Bright streaks of sheen
10/25/2018			Boom was repaired.	
10/30/2018	10:30		No sheens observed at mid tide	
11/14/2018	7:00		No sheens observed at high tide	
12/19/2018	11:15	Low tide	No sheens observed	
1/30/2019	11:00	Low tide	Between hard boom and shore proximate to former well RW-3	Dull streaks of sheen
2/27/2019	13:00	Mid-high tide	Between hard boom and shore proximate to former well RW-3	Dull plates and streaks of sheen
3/20/2019	13:00	Low	Between hard boom and shore proximate to former well RW-3	Dull plates and bright streaks of sheen
4/22/2019	11:00		No sheens observed at high tide	
5/10/2019			Boom was repaired.	
5/31/2019	7:00		No sheens observed at high tide	
6/26/2019	15:00	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
7/25/2019	14:30	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
8/22/2019	13:00	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
9/27/2019	7:00		No sheens observed at high tide	
10/1/2019			Boom was repaired.	
10/21/2019	14:30		No sheens observed at high tide	
11/21/2019	10:00	Mid Tide	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
12/18/2019	9:00		No sheens observed at mid tide	
1/24/2020	8:30	Mid Tide	Along shoreline proximate to former well RW-3.	Dull to bright plates of sheen
2/24/2020	12:00		No sheens observed at low tide	
3/26/2020	12:45		No sheens observed at mid to high tide	
4/23/2020	8:00		No sheens observed at high tide	
5/21/2020			Boom was repaired.	
5/22/2020	8:45		No sheens observed at high tide	
6/9/2020	15:00		No sheens observed at mid to low tide	
7/17/2020	12:30	Mid-low Tide	Along shoreline proximate to former well RW-3.	Slight dull to bright plates of sheen
8/11/2020	7:15	Mid Tide	Between hard boom and shore proximate to former well RW-3	Large dull to bright plates of sheen
8/20/2020	12:15		No sheens observed at mid to low tide	
9/22/2020	9:00		No sheens observed at mid to high tide	
10/26/2020	12:00		No sheens observed at low tide	
11/6/2020			Boom was repaired.	
11/24/2020	7:00		No sheens observed at mid to high tide	
12/11/2020	10:37	Low Tide	Between hard boom and shore proximate to former well RW-3	Minor dull to bright plates of sheen
12/21/2020			Boom was repaired.	

1. This table shows observations that were made along the Site shoreline. Observations were made least monthly.

2. A water line directly proximate to the Providence River at the LNG facility unexpectedly failed on May 31, 2013. This water line provided fire protection for the LNG facility. Immediate response actions included deploying additional absorbent booms, repairing a rip-rap slope and temporarily repairing the line for fire protection. The water line was replaced in the fall of 2013. Additional boom was deployed on May 31, 2013 and June 3, 2013 after additional sheens were observed outside the original boom configuration.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells

Note 1 - The readings reported from

Note 2 - The readings reported from monitoring well Unknown-2 in Table 1

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Notes

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Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed

NS - Not Surveyed

Blanks indicate no measurement coll

Potentiometric elevations for wells e

Note 1 - The readings reported from monitoring wells GZ-401 and

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Notes

Well is located in the Natural Gas Regulator portion of the Property

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Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells e

Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the Oc

Note 2 - The readings reported from monitoring well Unknown-2 in the November 20

Note 2 – The readings reported from monitoring well C1000-2B in the November 2020 column were corrected on December 12, 2020.

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SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
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Notes

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Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

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Potentiometric elevations for wells e

Note 1 - The readings reported from

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	August 2011								February 2012								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP																	
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP																	
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP																	
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP																	
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.66	-	15.4	5.16	NP	NP	5.16	-	6.33	-	15.5	5.49	NP	NP	5.49	
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	8.45	trace	17.75	2.99	NP	trace	2.99	-	9.4	trace	17.55	2.04	NP	trace	2.04	
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	6.92	-	14.95	6.12	NP	NP	6.12	-	6.91	-	15.05	6.13	NP	NP	6.13	
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	-	6.92	-	14.95	4.69	NP	NP	4.69	-	5.88	-	15.07	5.73	NP	NP	5.73	
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.91	-	15.28	2.84	NP	NP	2.84	-	8.81	-	15.35	3.94	NP	NP	3.94	
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.36	-	17.95	5.70	NP	NP	5.70	-	8.36	-	18.02	5.70	NP	NP	5.70	
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.96	-	14.75	5.48	NP	NP	5.48	-	7.37	-	14.86	6.07	NP	NP	6.07	
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	7.56	-	10.9	2.77	NP	NP	2.77	-	4.54	-	10.98	5.79	NP	NP	5.79	
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	trace	6.41	-	9.15	5.55	trace	NP	5.55	-	5.36	-	9.38	6.60	NP	NP	6.60	
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.26	-	13.95	4.67	NP	NP	4.67	-	7.38	-	13.75	5.55	NP	NP	5.55	
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.3	-	14.85	4.43	NP	NP	4.43	-	9.29	-	14.98	4.44	NP	NP	4.44	
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	12.22	12.23	-	17.04	6.87	0.01	NP	6.88	trace	11.83	-	17.16	7.27	trace	NP	7.27	
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.16	-	16.92	6.19	NP	NP	6.19	-	9.15	-	17.03	6.20	NP	NP	6.20	
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	-	8.99	-	16.55	4.66	NP	NP	4.66	-	8.4	-	16.63	5.25	NP	NP	5.25	
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	-	9.06	-	17.67	3.96	NP	NP	3.96	trace	7.94	-	17.31	5.08	trace	NP	5.08	
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	8.50	8.55	-	17.25	4.25	0.05	NP	4.29	trace	8.8	-	17.85	4.00	trace	NP	4.00	
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	7.22	-	10.42	5.72	NP	NP	5.72	-	6.3	-	10.55	6.64	NP	NP	6.64	
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.41	-	10.24	3.86	NP	NP	3.86	trace	10.24	-	10.35	4.03	trace	NP	4.03	
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																	
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	7.68	-	9.52	1.99	NP	NP	1.99	-	4.6	-	9.55	5.07	NP	NP	5.07	
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	5.74	-	11.5	8.32	NP	NP	8.32	-	5.4	-	11.6	8.66	NP	NP	8.66	
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP																	
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP																	
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP																	
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP																	
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP																	
NG	GZ-307S	10.70	10.18	10.70																								

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	August 2011								February 2012								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.33	-	13.33	1.94	NP	NP	1.94	-	10.75	-	13.45	1.52	NP	NP	1.52	
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.55	-	17.2	0.11	NP	NP	0.11	-	11.2	-	17.27	-0.54	NP	NP	-0.54	
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	9.09	-	10.95	3.86	NP	NP	3.86	-	8.85	-	11.07	4.10	NP	NP	4.10	
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	10.72	13.66	-	13.75	0.06	2.94	NP	2.56	10.95	13.74	-	13.94	-0.02	2.79	NP	2.35	
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.52	-	13	3.40	NP	NP	3.40	-	9.48	-	13.05	3.44	NP	NP	3.44	
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12	-	17.65	3.38	NP	NP	3.38	-	12.02	-	17.7	3.36	NP	NP	3.36	
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	trace	11.31	-	14.79	2.14	trace	NP	2.14	trace	11.73	-	14.79	1.72	trace	NP	1.72	
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	9.64	-	15.98	2.52	NP	NP	2.52	-	9.75	-	16.05	2.41	NP	NP	2.41	
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	7.74	-	13.12	1.93	NP	NP	1.93	-	8.37	-	13.26	1.30	NP	NP	1.30	
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	11.59	-	13.55	3.50	NP	NP	3.50	-	8.91	-	13.61	6.18	NP	NP	6.18	
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	11.82	-	14.05	-1.31	NP	NP	-1.31	-	12.06	-	14.11	-1.55	NP	NP	-1.55	
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	8.19	-	16.8	1.17	NP	NP	1.17	-	8.78	-	16.64	0.58	NP	NP	0.58	
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	9.65	-	14.6	4.21	NP	NP	4.21	-	9.45	-	14.7	4.41	NP	NP	4.41	
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.37	-	16.75	1.87	NP	NP	1.87	trace	10.78	-	16.9	1.46	trace	NP	1.46	
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.47	-	15.90	2.25	NP	NP	2.25	-	10.73	-	15.86	1.99	NP	NP	1.99	
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.91	-	17	6.07	NP	NP	6.07	-	8.85	-	17.17	6.13	NP	NP	6.13	
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.25	-	17.9	2.05	NP	NP	2.05	-	12.35	-	18	1.95	NP	NP	1.95	
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	11.27	11.3	-	12.35	1.78	0.03	NP	1.81	11.67	11.68	-	12.45	1.40	0.01	NP	1.41	
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	11.9	-	13.8	2.42	NP	NP	2.42	-	12.3	-	13.8	2.02	NP	NP	2.02	
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	6.71	-	8.46	NS	NP	NP	NS	-	5.41	-	8.6	NS	NP	NP	NS	
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.24	-	11.07	NS	NP	NP	NS	-	8.35	-	11.2	NS	NP	NP	NS	
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.25	-	16.8	2.78	NP	NP	2.78	-	13.46	-	16.81	2.57	NP	NP	2.57	
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.02	-	14.95	2.76	NP	NP	2.76	-	13.25	-	15.04	2.53	NP	NP	2.53	
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.31	-	17	2.83	NP	NP	2.83	-	13.52	-	17.06	2.62	NP	NP	2.62	
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.77	-	17.09	2.75	NP	NP	2.75	-	14.99	-	17.12	2.53	NP	NP	2.53	
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-																
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-																
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.4	-	17.3	3.43	NP	NP	3.43	-	9.19	-	17.41	3.64	NP	NP	3.64	
LNG	GZ-216	12.85</																										

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	July 2012								February 2013								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP																	
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP																	
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP																	
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP																	
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.41	-	15.41	5.41	NP	NP	5.41	-	6.69	-	15.4	5.13	NP	NP	5.13	
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	7.91	trace	17.55	3.53	NP	trace	3.53	-	9.25	trace	17.65	2.19	NP	trace	2.19	
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	6.95	-	14.95	6.09	NP	NP	6.09	-	6.95	-	15	6.09	NP	NP	6.09	
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	-	7.21	-	15.07	4.40	NP	NP	4.40	-	5.81	-	15.05	5.80	NP	NP	5.80	
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.03	-	15.2	3.72	NP	NP	3.72	-	8.71	-	15.3	4.04	NP	NP	4.04	
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.32	-	18.05	5.74	NP	NP	5.74	-	8.4	-	18	5.66	NP	NP	5.66	
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.38	-	14.8	6.06	NP	NP	6.06	-	6.87	-	14.85	6.57	NP	NP	6.57	
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.81	-	10.85	5.52	NP	NP	5.52	-	4.88	-	10.88	5.45	NP	NP	5.45	
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	6.49	-	9.11	5.47	NP	NP	5.47	-	4.97	-	9.4	6.99	NP	NP	6.99	
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.61	-	12.7	4.32	NP	NP	4.32	-	7.38	-	12.25	5.55	NP	NP	5.55	
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.46	-	14.91	4.27	NP	NP	4.27	-	9.38	-	14.9	4.35	NP	NP	4.35	
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	12.45	12.47	-	17.16	6.63	0.02	NP	6.65	-	12.81	-	17.15	6.29	NP	NP	6.29	
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.21	-	17	6.14	NP	NP	6.14	-	9.23	-	17	6.12	NP	NP	6.12	
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	9.31	9.32	-	16.63	4.33	0.01	NP	4.33	8.56	8.57	-	17.3	5.08	0.01	NP	5.08	
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	8.82	8.86	-	17.31	4.16	0.04	NP	4.19	-	8.88	-	17.8	4.14	NP	NP	4.14	
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.44	-	17.85	3.36	NP	NP	3.36	8.21	8.22	-	17.8	4.58	0.01	NP	4.58	
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	7.89	-	10.5	5.05	NP	NP	5.05	-	6.86	-	10.3	6.08	NP	NP	6.08	
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.57	-	10.61	3.70	NP	NP	3.70	trace	10.42	-	16.3	3.85	trace	NP	3.85	
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																	
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	5.75	-	9.14	3.92	NP	NP	3.92	-	4.15	-	9.35	5.52	NP	NP	5.52	
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	5.9	-	11.6	8.16	NP	NP	8.16	-	5.25	-	10	8.81	NP	NP	8.81	
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP																	
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP																	
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP																	
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP																	
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP																	
NG	GZ-307S	10.70	10.18	10.70	R																							

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	July 2012								February 2013								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.44	-	13.45	1.83	NP	NP	1.83	-	10.59	-	13.55	1.68	NP	NP	1.68	
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.65	-	17.2	0.01	NP	NP	0.01	-	11.21	-	17.26	-0.55	NP	NP	-0.55	
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	9.1	-	11.07	3.85	NP	NP	3.85	-	8.83	-	14.35	4.12	NP	NP	4.12	
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	11.17	12.82	-	14.35	0.90	1.65	NP	2.30	11.41	12.85	-	14.35	0.87	1.44	NP	2.10	
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.69	-	13.05	3.23	NP	NP	3.23	-	9.77	-	13.2	3.15	NP	NP	3.15	
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.08	-	17.7	3.30	NP	NP	3.30	-	12.28	-	17.75	3.10	NP	NP	3.10	
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	11.50	11.61	-	14.45	1.84	0.11	NP	1.84	trace	11.98	-	14.45	1.47	trace	NP	1.47	
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	10.75	-	16.01	1.41	NP	NP	1.41	-	9.98	-	12.9	2.18	NP	NP	2.18	
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	8.08	-	13.2	1.59	NP	NP	1.59	-	8.51	-	13.3	1.16	NP	NP	1.16	
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	7.1	-	13.55	7.99	NP	NP	7.99	-	6.75	-	13.55	8.34	NP	NP	8.34	
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	10.24	-	14.1	0.27	NP	NP	0.27	-	11.62	-	14.07	-1.11	NP	NP	-1.11	
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	8.48	-	16.7	0.88	NP	NP	0.88	-	9.05	-	16.7	0.31	NP	NP	0.31	
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	9.85	-	14.65	4.01	NP	NP	4.01	-	9.86	-	14.75	4.00	NP	NP	4.00	
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	trace	10.47	-	16.8	1.77	trace	NP	1.77	trace	10.85	-	16.8	1.39	trace	NP	1.39	
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.5	-	15.84	2.22	NP	NP	2.22	-	10.71	-	15.85	2.01	NP	NP	2.01	
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.91	-	17.05	6.07	NP	NP	6.07	-	9.12	-	17.2	5.86	NP	NP	5.86	
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.31	-	17.92	1.99	NP	NP	1.99	-	12.71	-	17.9	1.59	NP	NP	1.59	
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	trace	11.4	-	12.4	1.68	trace	NP	1.68	trace	11.77	-	12.5	1.31	trace	NP	1.31	
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.08	-	13.8	2.24	NP	NP	2.24	-	12.4	-	13.8	1.92	NP	NP	1.92	
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	6.59	-	8.46	NS	NP	NP	NS	-	5.27	-	8.55	NS	NP	NP	NS	
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.18	-	11.1	NS	NP	NP	NS	-	8.39	-	11.2	NS	NP	NP	NS	
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.36	-	16.8	2.67	NP	NP	2.67	-	13.68	-	16.85	2.35	NP	NP	2.35	
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.14	-	15	2.64	NP	NP	2.64	-	13.44	-	15.05	2.34	NP	NP	2.34	
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.44	-	17.05	2.70	NP	NP	2.70	-	13.74	-	17.05	2.40	NP	NP	2.40	
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.86	-	17.1	2.66	NP	NP	2.66	-	15.16	-	17.15	2.36	NP	NP	2.36	
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-																
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	7.7	-	20.05	1.83	NP	NP	1.83	-	8.98	-	20.10	0.55	NP	NP	0.55	
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.49	-	17.43	3.34	NP	NP	3.34	-	9.62	-	17.42	3.21</td				

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	November 2013								June 2014							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)		
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP								-	9.82	-	14.7	7.51	NP	NP	7.51	
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP								-	10.87	-	29.7	6.46	NP	NP	6.46	
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP								-	9.42	-	14.7	7.25	NP	NP	7.25	
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP								-	9.35	-	29.5	7.24	NP	NP	7.24	
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	7.19	-	15.45	4.63	NP	NP	4.63	-	6.32	-	15.5	5.50	NP	NP	5.50
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.44	trace	17.7	2.00	NP	trace	2.00	-	8.82	Trace	17.8	2.62	NP	Trace	2.62
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	7.41	-	14.72	5.63	NP	NP	5.63	-	6.44	-	15	6.60	NP	NP	6.60
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Well pinched - can not gauge								Well pinched - able to sample - can not gauge							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.76	-	15.35	2.99	NP	NP	2.99	-	8.42	-	15.3	4.33	NP	NP	4.33
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.77	-	18	5.29	NP	NP	5.29	-	7.92	-	17.97	6.14	NP	NP	6.14
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	8.2	-	14.9	5.24	NP	NP	5.24	-	7.07	-	14.8	6.37	NP	NP	6.37
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.81	-	10.9	5.52	NP	NP	5.52	-	4.55	-	11.5	5.78	NP	NP	5.78
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	6.54	-	9.5	5.42	NP	NP	5.42	-	5.01	-	10.1	6.95	NP	NP	6.95
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	9.48	-	13.8	3.45	NP	NP	3.45	-	8.08	-	12.45	4.85	NP	NP	4.85
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	10.07	-	15	3.66	NP	NP	3.66	-	8.94	-	15.1	4.79	NP	NP	4.79
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	13.24	13.25	-	15.2	5.85	0.01	NP	5.86	Trace	12.08	-	18	7.02	Trace	NP	6.08
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.62	-	16.74	5.73	NP	NP	5.73	-	8.91	-	17	6.44	NP	NP	6.44
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	trace	10.26	-	16.6	3.39	trace	NP	3.39	-	8.86	-	18.5	4.79	NP	NP	4.79
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	10.35	10.36	-	17.8	2.66	0.01	NP	2.67	Trace	8.51	-	17.3	4.51	Trace	NP	4.51
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.86	-	17.3	2.94	NP	NP	2.94	9.22	9.25	-	17.8	3.55	0.03	NP	3.57
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	8.97	-	10.5	3.97	NP	NP	3.97	-	7.13	-	11.3	5.81	NP	NP	5.81
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	11.22	-	16.2	3.05	NP	NP	3.05	-	9.98	-	16.3	4.29	NP	NP	4.29
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	5.78	-	9.5	3.89	NP	NP	3.89	-	4.26	-	9.3	5.41	NP	NP	5.41
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP								-	6.74	-	13.75	7.32	NP	NP	7.32	
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP								-	6.55	-	15.2	6.73	NP	NP	6.73	
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP								-	6.18	-	29.7	6.95	NP	NP	6.95	
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP								-	6.55	-	29.7	5.40	NP	NP	5.40	
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP								-	6.8	-	14.15	4.84	NP	NP	4.84	
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP								-</								

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	November 2013								June 2014							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)		
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.77	-	13.45	1.50	NP	NP	1.50	-	10.39	-	17.4	1.88	NP	NP	1.88
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.61	-	17.2	0.05	NP	NP	0.05	Well covered with gravel - can not gauge							
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	10.27	-	11.03	2.68	NP	NP	2.68	-	9.09	-	14.2	3.86	NP	NP	3.86
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	12.26	14.17	-	14.35	-0.45	1.91	NP	1.17	11.04	11.95	-	14.63	1.77	0.91	NP	2.54
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	10.3	-	13.05	2.62	NP	NP	2.62	-	9.75	-	13	3.17	NP	NP	3.17
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.46	-	17.48	2.92	NP	NP	2.92	-	11.84	-	17.8	3.54	NP	NP	3.54
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	-	11.79	-	14.35	1.66	NP	NP	1.66	11.38	11.55	-	14.95	1.90	0.17	NP	2.04
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-															
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	10.39	-	12.8	1.77	NP	NP	1.77	-	9.16	-	12.98	3.00	NP	NP	3.00
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	8.11	-	13.2	1.56	NP	NP	1.56	-	7.75	-	13.32	1.92	NP	NP	1.92
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	7.01	-	12.81	8.08	NP	NP	8.08	-	10.13	-	13.1	4.96	NP	NP	4.96
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	10.28	-	11.8	0.23	NP	NP	0.23	-	12.15	-	13.16	-1.64	NP	NP	-1.64
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	9.25	-	16.5	0.11	NP	NP	0.11	-	8.7	-	17.65	0.66	NP	NP	0.66
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	10.8	-	14.64	3.06	NP	NP	3.06	-	9.42	-	14.75	4.44	NP	NP	4.44
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.7	-	16.85	1.54	NP	NP	1.54	-	10.4	-	16.92	1.84	NP	NP	1.84
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.9	-	15.86	1.82	NP	NP	1.82	-	10.45	-	15.95	2.27	NP	NP	2.27
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.26	-	16.88	5.72	NP	NP	5.72	-	8.52	-	17.54	6.46	NP	NP	6.46
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.8	-	17.92	1.50	NP	NP	1.50	-	11.98	-	17.9	2.32	NP	NP	2.32
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	11.60	11.61	-	12.4	1.47	0.01	NP	1.48	Trace	11.33	-	12.56	1.75	NP	NP	1.75
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.25	-	13.7	2.07	NP	NP	2.07	-	12.59	-	14.5	1.73	NP	NP	1.73
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	7.35	-	8.45	NS	NP	NP	NS	-	4.94	-	8.7	NS	NP	NP	NS
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.68	-	11.1	NS	NP	NP	NS	-	7.9	-	11.32	NS	NP	NP	NS
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.94	-	16.8	2.09	NP	NP	2.09	-	13.33	-	16.98	2.70	NP	NP	2.70
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.66	-	15	2.12	NP	NP	2.12	-	13.1	-	15.15	2.68	NP	NP	2.68
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	14.01	-	17.03	2.13	NP	NP	2.13	-	13.35	-	17.12	2.79	NP	NP	2.79
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	15.45	-	17.1	2.07	NP	NP	2.07	-	14.81	-	17.2	2.71	NP	NP	2.71
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-															
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	8.1	-	20.08	1.43	NP	NP	1.43	-	7.79	-	20.08	1.74	NP	NP	1.74
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	10.21	-	17.53	2.62	NP	NP	2.62	-	9.27	-	17.44	3.56	NP	NP	3.56
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TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	July 2, 2014								July 23, 2014								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.06	-	14.45	7.27	NP	NP	7.27	-	10.1	-	14.44	7.23	NP	NP	7.23	
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.05	-	29.6	7.28	NP	NP	7.28	-	10.12	-	29.6	7.21	NP	NP	7.21	
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	9.59	-	14.56	7.08	NP	NP	7.08	-	9.66	-	14.55	7.01	NP	NP	7.01	
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	9.48	-	29.44	7.11	NP	NP	7.11	-	9.57	-	29.41	7.02	NP	NP	7.02	
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.3	-	15.45	5.52	NP	NP	5.52	-	6.25	-	15.45	5.57	NP	NP	5.57	
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	8.91	Trace	18.11	2.53	NP	Trace	2.53	-	9.49	Trace	17.91	1.95	NP	Trace	1.95	
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP																	
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP																	
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP																	
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP																	
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP																	
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.65	-	11.35	5.68	NP	NP	5.68	-	4.65	-	11.31	5.68	NP	NP	5.68	
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	6.27	-	10.2	5.69	NP	NP	5.69	-	6.15	-	10.13	5.81	NP	NP	5.81	
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP																	
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP																	
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Trace	12.41	-	18	6.69	Trace	NP	6.69	-	12.66	-	17.94	6.44	NP	NP	6.44	
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP																	
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Trace	9.07	-	18.5	4.58	Trace	NP	4.58	9.41	9.49	-	18.5	4.16	0.08	NP	4.22	
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP																	
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP																	
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP																	
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP																	
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																	
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	5.54	-	9.35	4.13	NP	NP	4.13	-	5.42	-	9.3	4.25	NP	NP	4.25	
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	7.06	-	13.74	7.00	NP	NP	7.00	-	7.41	-	14.00	6.65	NP	NP	6.65	
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	6.55	-	14.91	6.73	NP	NP	6.73	-	6.62	-	14.91	6.66	NP	NP	6.66	
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	6.3	-	29.67	6.83	NP	NP	6.83	-	6.38	-	29.66	6.75	NP	NP	6.75	
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	6.45	-	29.58	5.50	NP	NP	5.50	-	6.45	-	29.57	5.50	NP	NP	5.50	
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	6.75	-	14.16	4.89	NP	NP	4.89	-	6.72	-	14.15	4.92	NP	NP	4.92	
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.55	-	14.8	4.94	NP	NP	4.94	-	6.52	-	14.78	4.97	NP	NP	4.97	
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	-	4.86	-	14.01	5.32	NP	NP	5.32	-	4.85	-	13.					

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of DNAPL Observed (feet)	Range of LNAPL Observed (feet)	July 2, 2014								July 23, 2014										
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)			
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.55	-	17.25	1.72	NP	NP	1.72	-	10.68	-	17.35	1.59	NP	NP	1.59			
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP																			
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP																			
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1										
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP																			
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP																	12.06		
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP																			
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP																			
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP																			
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP																			
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP																			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP																			
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP																			
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP																			
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP																			
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP																			
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.66	-	17.55	6.32	NP	NP	6.32	-	8.89	-	17.54	6.09	NP	NP	6.09			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP																			
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP										Trace	11.51	-	12.56	1.57	Trace	NP	12.56		
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP										-	10.68	-	17.35	3.64	NP	NP	3.64		
LNG	ESS RW-1	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP																				
LNG	ESS RW-2	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP																				
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP																			
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP																			
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP																			
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP																			
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP																			
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP																			
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP																			
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP																			
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	10.24	10.26	-	14	3.92	0.02	NP	3.94	Trace	10.46	-	14.02	3.72	Trace	NP	3.72			
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	-	12.28	-	21.80	1.91	NP	NP	1.91	-	12.48	-	21.81	1.71	NP	NP	1.71			

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of DNAPL Observed (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	October 2014					April 2015							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)						GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)									
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.52	-	14.57	6.81	NP	NP	6.81	-	9.51	-	14.4	7.82	NP	NP	7.82
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.49	-	29.72	6.84	NP	NP	6.84	-	9.61	-	29.66	7.72	NP	NP	7.72
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	9.99	-	14.56	6.68	NP	NP	6.68	-	9.4	-	14.56	7.27	NP	NP	7.27
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	9.9	-	29.45	6.69	NP	NP	6.69	-	9.35	-	29.38	7.24	NP	NP	7.24
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	7.57	-	15.43	4.25	NP	NP	4.25	-	6.02	-	14.97	5.80	NP	NP	5.80
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.35	Trace	18.1	2.09	NP	Trace	2.09	-	8.51	trace	18.1	2.93	NP	trace	2.93
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	7.24	-	14.98	5.80	NP	NP	5.80	-	6.3	-	15.02	6.74	NP	NP	6.74
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Well pinched - can not gauge					Well pinched - can not gauge					Well pinched - can not gauge					
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	8.84	-	15.25	3.91	NP	NP	3.91	-	8.16	-	15.38	4.59	NP	NP	4.59
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.33	-	17.9	5.73	NP	NP	5.73	-	7.83	-	17.96	6.23	NP	NP	6.23
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	8.29	-	14.78	5.15	NP	NP	5.15	-	6.82	-	14.79	6.62	NP	NP	6.62
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.92	-	11.35	5.41	NP	NP	5.41	-	3.82	-	11.3	6.51	NP	NP	6.51
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	5.63	-	10.2	6.33	NP	NP	6.33	-	4.32	-	10.19	7.64	NP	NP	7.64
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.77	-	12.95	4.16	NP	NP	4.16	-	6.87	-	12.12	6.06	NP	NP	6.06
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.22	-	15.05	4.51	NP	NP	4.51	-	8.6	-	15.07	5.13	NP	NP	5.13
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	-	12.88	-	18	6.22	NP	NP	6.22	-	11.29	-	18	7.81	NP	NP	7.81
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.34	-	17	6.01	NP	NP	6.01	-	8.51	-	17	6.84	NP	NP	6.84
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	-	9.45	-	18.55	4.20	NP	NP	4.20	7.80	7.81	-	18.54	5.84	0.01	NP	5.84
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	9.88	9.92	-	17.3	3.10	0.04	NP	3.13	8.29	8.3	-	17.82	4.72	0.01	NP	4.73
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.12	-	17.3	3.68	NP	NP	3.68	-	7.44	-	17.32	5.36	NP	NP	5.36
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	7.5	-	10.5	5.44	NP	NP	5.44	-	6.38	-	10.45	6.56	NP	NP	6.56
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.34	-	18.3	3.93	NP	NP	3.93	-	9.61	-	16.3	4.66	NP	NP	4.66
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	4.87	-	9.3	4.80	NP	NP	4.80	-	3.62	-	9.3	6.05	NP	NP	6.05
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	7.74	-	13.75	6.32	NP	NP	6.32	Buried under Snow							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	9.98	-	29.97	3.30	NP	NP	3.30	-	6.44	-	15.01	6.84	NP	NP	6.84
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	9.93	-	15.05	3.20	NP	NP	3.20	-	6.16	-	29.65	6.97	NP	NP	6.97
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	7.00	-	29.62	4.95	NP	NP	4.95	-	6.18	-	29.76	5.77	NP	NP	5.77
NG	GZ-305S	11.84	11.64	11.84	R																						

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of DNAPL Observed (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	October 2014				April 2015											
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)						GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)												
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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.67	-	17.42	1.60	NP	NP	1.60	-	10.76	-	17.28	1.51						
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	11.90	-	16.23	-1.24	NP	NP	-1.24	-	11.04	-	16.20	-0.38						
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	9.92	-	14.22	3.03	NP	NP	3.03	-	8.71	-	14	4.24						
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1											Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	10	-	13.29	2.92	NP	NP	2.92	-	9.62	-	13	3.30						
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.28	-	17.81	3.10	NP	NP	3.10	-	11.49	-	17.68	3.89						
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	11.68	11.76	-	14.95	1.69	0.08	NP	1.76	11.53	11.55	-	14.8	1.90	0.02	NP	1.92			
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	Well destroyed - replaced with RW-1											Well destroyed - replaced with RW-1							
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	10.3	-	13.05	1.86	NP	NP	1.86	-	9.3	-	12.85	2.86	NP	NP	2.86			
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	8.31	-	13.38	1.36	NP	NP	1.36	-	10.5	-	15.67	-0.83	NP	NP	-0.83			
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	12.32	-	13.21	2.77	NP	NP	2.77	-	6.42	-	12.95	8.67	NP	NP	8.67			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	11.94	-	13.15	-1.43	NP	NP	-1.43	-	11.88	-	13.07	-1.37	NP	NP	-1.37			
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	9.02	-	16.33	0.34	NP	NP	0.34	-	8.95	-	16.4	0.41	NP	NP	0.41			
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	10.01	-	14.84	3.85	NP	NP	3.85	-	9.23	-	14.6	4.63	NP	NP	4.63			
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.7	-	16.96	1.54	NP	NP	1.54	10.75	10.79	-	16.8	1.45	0.04	NP	1.48			
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.7	-	15.88	2.02	NP	NP	2.02	-	10.51	-	15.75	2.21	NP	NP	2.21			
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.15	-	17.6	5.83	NP	NP	5.83	-	8.18	-	17.75	6.80	NP	NP	6.80			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	11.57	-	12.67	2.73	NP	NP	2.73	trace	12.38	-	17.85	1.92	trace	NP	1.92			
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Trace	10.71	-	12.55	2.37	Trace	NP	2.37	trace	11.62	-	12.4	1.46	trace	NP	1.46			
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.8	-	14.4	1.52	NP	NP	1.52	12.82	12.83	-	14.1	1.49	0.01	NP	1.50			
LNG	ESS RW-1	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	5.4	-	8.82	NS	NP	NP	NS	-	4.05	-	8.45	NS	NP	NP	NS				
LNG	ESS RW-2	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Trace	8.19	-	11.3	NS	Trace	NP	NS	-	7.9	-	11.1	NS	NP	NP	NS				
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.49	-	16.98	2.54	NP	NP	2.54	-	13.08	-	16.3	2.95	NP	NP	2.95			
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.31	-	18.22	2.47	NP	NP	2.47	-	12.89	-	15	2.89	NP	NP	2.89			
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.38	-	17.08	2.76	NP	NP	2.76	-	13.16	-	17	2.98	NP	NP	2.98			
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.94	-	17.22	2.58	NP	NP	2.58	-	14.61	-	17	2.91	NP	NP	2.91			
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	Well destroyed - replaced with RW-1											-	9.54	-	20.23	3.56	NP	NP	3.56
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	9.89	-	20.17	-0.36	NP	NP	-0.36	-	9.24	-	20.10	0.29	NP	NP</				

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	October 2015							May 2016								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.89	-	14.73	6.44	NP	NP	6.44	-	10.18	-	14.5	7.15	NP	NP	7.15
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.84	-	29.64	6.49	NP	NP	6.49	-	10.22	-	29.6	7.11	NP	NP	7.11
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	10.23	-	14.76	6.44	NP	NP	6.44	-	9.9	-	14.54	6.77	NP	NP	6.77
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	10.19	-	29.42	6.40	NP	NP	6.40	-	9.83	-	29.38	6.76	NP	NP	6.76
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.72	-	15.61	5.10	NP	NP	5.10	-	6.1	-	15.4	5.72	NP	NP	5.72
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.24	trace	18	2.20	NP	trace	2.20	-	9.48	trace	17.9	1.96	NP	trace	1.96
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	7.27	-	15.12	5.77	NP	NP	5.77	-	6.92	-	14.95	6.12	NP	NP	6.12
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015													Decommissioned October 2015		
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.2	-	15.52	3.55	NP	NP	3.55	-	8.95	-	15.3	3.80	NP	NP	3.80
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.63	-	18.08	5.43	NP	NP	5.43	-	8.25	-	5.81	NP	NP	5.81	
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	8	-	15	5.44	NP	NP	5.44	-	7.87	-	5.57	NP	NP	5.57	
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	5.13	-	11.64	5.20	NP	NP	5.20	-	4.5	-	11.32	5.83	NP	NP	5.83
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	6.27	-	10.44	5.69	NP	NP	5.69	-	6	-	10.15	5.96	NP	NP	5.96
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	9.31	-	12.2	3.62	NP	NP	3.62	-	8	-	11.12	4.93	NP	NP	4.93
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.54	-	15.3	4.19	NP	NP	4.19	-	9.18	-	15	4.55	NP	NP	4.55
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	trace	13.14	-	18.15	5.96	trace	NP	5.96	-	12.32	-	17.95	6.78	NP	NP	6.78
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.58	-	17.18	5.77	NP	NP	5.77	-	9.19	-	17	6.16	NP	NP	6.16
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	trace	10.07	-	18.62	3.58	trace	NP	3.58	8.78	8.79	-	18.14	4.86	0.01	NP	4.86
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	10.29	10.32	-	17.8	2.70	0.03	NP	2.72	-	8.42	-	17.19	4.60	NP	NP	4.60
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.65	-	17.45	3.15	NP	NP	3.15	-	9.11	-	17.68	3.69	NP	NP	3.69
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	8.64	-	10.8	4.30	NP	NP	4.30	-	7.66	-	10.31	5.28	NP	NP	5.28
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.72	-	16.5	3.55	NP	NP	3.55	-	10.34	-	16.32	3.93	NP	NP	3.93
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	5.55	-	9.48	4.12	NP	NP	4.12	-	5.21	-	9.1	4.46	NP	NP	4.46
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	8.00	-	14.15	6.06	NP	NP	6.06	-	7.14	-	13.68	6.92	NP	NP	6.92
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	7.14	-	15.12	6.14	NP	NP	6.14	-	6.75	-	14.9	6.53	NP	NP	6.53
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	7.9	-	29.67	5.23	NP	NP	5.23	-	6.49	-	29.62	6.64	NP	NP	6.64
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	6.45	-	29.6	5.50	NP	NP	5.50	-	6.01	-	29.5	5.94	NP	NP	5.94
NG	GZ-305S	11.84	11.64	11.84	Roadbox																						

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of DNAPL Observed (feet)	Range of LNAPL Observed (feet)	October 2015								May 2016								
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	
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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.65	-	17.32	1.62	NP	NP	1.62	-	10.8	-	17.32	1.47	NP	NP	1.47	
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.93	-	19.56	-0.03	NP	NP	-0.03	-	10.32	-	15.62	0.34	NP	NP	0.34	
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	10.18	-	14.28	2.77	NP	NP	2.77	-	9.17	-	14	3.78	NP	NP	3.78	
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	10.08	-	13.29	2.84	NP	NP	2.84	-	9.62	-	12.9	3.30	NP	NP	3.30	
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.22	-	17.7	3.16	NP	NP	3.16	-	9.78	-	17.65	5.60	NP	NP	5.60	
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	11.43	11.53	-	12.62	1.92	0.10	NP	2.01	11.52	11.53	-	12.31	1.92	0.01	NP	1.93	
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	9.93	-	13.12	2.23	NP	NP	2.23	-	9.69	-	12.84	2.47	NP	NP	2.47	
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	7.76	-	13.49	1.91	NP	NP	1.91	-	8	-	13.19	1.67	NP	NP	1.67	
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	12.78	-	13.17	2.31	NP	NP	2.31	-	12.18	-	12.9	2.91	NP	NP	2.91	
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	10	-	13.15	0.51	NP	NP	0.51	-	10.71	-	12.92	-0.20	NP	NP	-0.20	
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	8.82	-	16.71	0.54	NP	NP	0.54	-	8.95	-	16.5	0.41	NP	NP	0.41	
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	10.45	-	14.82	3.41	NP	NP	3.41	-	9.65	-	14.55	4.21	NP	NP	4.21	
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	trace	10.6	-	17.84	1.64	trace	NP	1.64	10.69	10.71	-	16.8	1.53	0.02	NP	1.55	
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.49	-	15.87	2.23	NP	NP	2.23	-	10.58	-	15.85	2.14	NP	NP	2.14	
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.14	-	17.52	5.84	NP	NP	5.84	-	8.82	-	17.43	6.16	NP	NP	6.16	
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.68	-	18	1.62	NP	NP	1.62	-	11.62	-	12.35	2.68	NP	NP	2.68	
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	-	11.35	-	12.44	1.73	NP	NP	1.73	-	11.05	-	0.00	2.03	NP	NP	2.03	
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.69	-	14.34	1.63	NP	NP	1.63	-	12.77	-	14.1	1.55	NP	NP	1.55	
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	5.99	-	8.27	NS	NP	NP	NS	trace	6.07	-	8.44	NS	trace	NP	NS	
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.23	-	11.34	NS	NP	NP	NS	trace	8.34	-	11.1	NS	trace	NP	NS	
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.65	-	16.95	2.38	NP	NP	2.38	-	13.35	-	16.75	2.68	NP	NP	2.68	
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.4	-	15.19	2.38	NP	NP	2.38	-	13.13	-	14.96	2.65	NP	NP	2.65	
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.72	-	17.21	2.42	NP	NP	2.42	-	13.31	-	16.9	2.83	NP	NP	2.83	
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	15.1	-	17.37	2.42	NP	NP	2.42	-	14.8	-	16.6	2.72	NP	NP	2.72	
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-	9.85	-	20.21	3.25	NP	NP	3.25	-	9.77	-	20.22	3.33	NP	NP	3.33	
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP</td																		

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for well

Note 1 - The readings reported from

Note 2 - The readings reported fro

Note 2 - The readings reported were

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	October 2016								May 2017										
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)			
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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	9.45	-	15.69	1.21	NP	NP	1.21	Could not locate well										
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1										
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.68	-	13.02	3.24	NP	NP	3.24	-	8.93	-	13.02	3.99	NP	NP	3.99			
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.28	-	17.65	3.10	NP	NP	3.10	-	11.14	-	17.70	4.24	NP	NP	4.24			
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	Decommissioned June 2016								Monitoring Well Lost - Found in 2017										
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	Unable to open								-	12.50	-	12.93	2.59	NP	NP	2.59			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	9.51	-	13.17	1.00	NP	NP	1.00	-	11.80	-	13.10	-1.29	NP	NP	-1.29			
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	9.81	-	14.65	4.05	NP	NP	4.05	-	8.44	-	14.65	5.42	NP	NP	5.42			
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.03	-	17.43	5.95	NP	NP	5.95	-	8.10	-	17.47	6.88	NP	NP	6.88			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.57	-	16.85	2.46	NP	NP	2.46	-	12.50	-	16.25	3.53	NP	NP	3.53			
LNG	ESS RW-4	15.78	15.78	12.69	Re																									

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for well

Note 1 - The readings reported from

Note 2 - The readings reported fro

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	March 2018								November 2018										
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)			
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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.00	-	15.70	0.66	NP	NP	0.66	-	11.29	-	20.78	-0.63	NP	NP	-0.63			
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1										
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	8.66	-	12.72	4.26	NP	NP	4.26	-	8.35	-	12.98	4.57	NP	NP	4.57			
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	10.80	-	17.71	4.58	NP	NP	4.58	-	10.59	-	17.61	4.79	NP	NP	4.79			
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-	11.95	-	13.75	3.03	NP	NP	-	-	13.22	-	13.78	1.76	NP	NP	-			
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	8.90	-	13.02	6.19	NP	NP	6.19	-	7.82	-	14.61	7.27	NP	NP	7.27			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	9.85	-	13.05	0.66	NP	NP	0.66	Filled with sediment from construction										
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	8.45	-	14.62	5.41	NP	NP	5.41	-	6.35	-	12.94	7.51	NP	NP	7.51			
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	7.88	-	17.47	7.10	NP	NP	7.10	-	7.20	-	17.41	7.78	NP	NP	7.78			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	12.46	-	17.5	3.57	NP	NP	3.57	-	11.91	-	16.79	4.12	NP	NP	4.12			
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	12.13	-																

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2019								November 2019							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	9.2	-	14.4	8.13	NP	NP	8.13	-	9.9	-	14.43	7.43	NP	NP	7.43
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	9.28	-	29.50	8.05	NP	NP	8.05	-	9.93	-	29.74	7.40	NP	NP	7.40
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	8.89	-	14.5	7.78	NP	NP	7.78	-	9.57	-	14.63	7.10	NP	NP	7.10
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	8.79	-	29.45	7.80	NP	NP	7.80	-	9.47	-	29.65	7.12	NP	NP	7.12
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	4.96	-	15.45	6.86	NP	NP	6.86	-	5.63	-	15.55	6.19	NP	NP	6.19
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	7.43	-	17.87	6.63	NP	NP	6.63	-	8.64	-	18.22	5.42	NP	NP	5.42
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.09	-	14.73	6.35	NP	NP	6.35	-	7.72	-	15.00	5.72	NP	NP	5.72
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	3.32	-	11.32	7.01	NP	NP	7.01	-	4.19	-	11.48	6.14	NP	NP	6.14
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	NP	Decommissioned June 2016								Decommissioned June 2016								
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	Decommissioned November 2018								Decommissioned November 2018							
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2019								November 2019										
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)			
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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.12	-	15.24	0.54	NP	NP	0.54	-	10.11	-	16.1	0.55	NP	NP	0.55			
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1										
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	8.95	-	13.04	3.97	NP	NP	3.97	-	9.62	-	13	3.30	NP	NP	3.30			
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	10.93	-	17.62	4.45	NP	NP	4.45	-	11.7	-	17.75	3.68	NP	NP	3.68			
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-	12.06	-	13.79	2.92	NP	NP	-	-	12.48	-	13.80	2.50	NP	NP	-			
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	8.15	-	12.93	6.94	NP	NP	6.94	-	11.14	-	12.95	3.95	NP	NP	3.95			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	Filled with sediment from construction								-	10.29	-	12.35	0.22	NP	NP	0.22			
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	8.8	-	14.6	5.06	NP	NP	5.06	Decommissioned Summer 2019										
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	7.90	-	17.45	7.08	NP	NP	7.08	-	8.63	-	17.5	6.35	NP	NP	6.35			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	12.62	-	17.2	3.41	NP	NP	3.41	-	13.20	-	15.15	2.83	NP	NP	2.83			
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP																			

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2020								November 2020							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	9.78	-	14.46	7.55	NP	NP	7.55	-	9.8	-	14.58	7.53	NP	NP	7.53
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	9.82	-	29.6	7.51	NP	NP	7.51	-	9.95	-	29.65	7.38	NP	NP	7.38
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	9.38	-	14.63	7.29	NP	NP	7.29	-	9.48	-	14.61	7.19	NP	NP	7.19
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	9.33	-	29.61	7.26	NP	NP	7.26	-	9.43	-	29.3	7.16	NP	NP	7.16
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	5.37	-	15.53	6.45	NP	NP	6.45	-	5.6	-	15.4	6.22	NP	NP	6.22
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	7.75	-	18.93	6.31	NP	NP	6.31	-	7.65	-	18.1	6.41	NP	NP	6.41
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.53	-	14.73	5.91	NP	NP	5.91	-	7.04	-	15	6.40	NP	NP	6.40
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	3.86	-	11.34	6.47	NP	NP	6.47	-	4.17	-	11.35	6.16	NP	NP	6.16
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2/02	9.42	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2/02	13.12	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	Decommissioned November 2018								Decommissioned November 2018							
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2020								November 2020										
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)			
<hr/>																														
<hr/>																														
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.8	-	16.09	-0.14	NP	NP	-0.14	-	9.9	-	15.28	0.76	NP	NP	0.76			
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1										
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.74	-	13	3.18	NP	NP	3.18	-	8.93	-	12.9	3.99	NP	NP	3.99			
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	11.56	-	17.72	3.82	NP	NP	3.82	-	11.82	-	12.85	3.56	NP	NP	3.56			
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-	12.58	-	13.8	2.40	NP	NP	2.4	-	12.57	-	13.82	2.41	NP	NP	2.41			
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	7.55	-	12.96	7.54	NP	NP	7.54	-	5.96	-	13	9.13	NP	NP	9.13			
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	11.1	-	12.54	-0.59	NP	NP	-0.59	-	11.14	-	12.45	-0.63	NP	NP	-0.63			
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	Decommissioned Summer 2019								Decommissioned Summer 2019										
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.39	-	17.47	6.59	NP	NP	6.59	-	8.62	-	17.4	6.36	NP	NP	6.36			
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016										
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.21	-	16.85	2.82	NP	NP	2.82	-	13.34	-	17.28	2.69	NP	NP	2.69			
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP</td																				

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	November 2001	June 2002	September 2002	October 2002	October 2002	November 2002	December 2002	December 2002	January 2003	February 2003	February 2003	February 2003	September 2003	September 2003	September 2005	March 2006	June 2006	July 2006	October 2006	December 2006	March 2008	December 2009	
Natural Gas Regulation Facility																							
RCA-11	trace	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG
RCA-15	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG
VHB-1	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG
VHB-2	NI	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	NG	NG	NG	NG	NG	NG	NG	NG	Dest
VHB-3	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG
VHB-6	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG	NG	NG	NG	NG	NG	NG	NG	ND
VHB-7	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG	NG	NG	NG	NG	NG	NG	NG	trace
VHB-9	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG	NG	NG	NG	NG	NG	NG	NG	ND
VHB-10	NI	trace	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	trace
VHB-18	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	NG	trace	ND	ND	ND	ND	ND	NG	ND	ND
VHB-21	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	NG	trace	trace	NG	NG	NG	NG	NG	NG	trace
VHB-22	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	0.03	0.58	0.69	NG	0.33	0.46	0.4	NG		
VHB-23	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	0.05	ND	ND	ND	ND	ND	ND	0.01	NG
CHES RW-1	NI	NI	NI	0.03	0.04	0.08	0.04	0.01	0.02	NG	0.01	ND	NG	0.1	ND	ND	ND	0.02	ND	trace	NG		
CHES RW-2	NI	NI	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NG	ND	NG	NG	NG	NG	NG	NG	trace	NG
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
GZ-307S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
LNG Facility																							
RCA-4	0.17	NG	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG
RCA-6	trace	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG
RCA-21	NG	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
RCA-22	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG	NG	NG	NG	NG	NG	ND	NG	NG
RCA-28	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	NG	trace	NG
RCA-29	0.33	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.15	trace	ND	0.36	0.15	0.11	0.15	0.3	0.3	NG	
RCA-36	ND	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG	NG	NG	NG	NG	NG	ND	NG	
RCA-39	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	NG	NG	NG	NG	NG	NG	NG	NG	
RCA-40	0.25	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	0.1	0.21	0.18	0.22	0.01	0.01	NG		
CHES RW-3	NI	NI	NI	ND	ND	ND	ND	ND	ND	ND	ND	ND	NG	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG
CHES RW-4	NI	NI	NI	0.03	0.02	0.09	0.08	0.05	0.03	NG	0.03	0.02	NG	2	ND	0.18	0.13	0.1	0.08	0.09	NG		
CHES RW-5	NI	NI	NI	0.05	0.04	0.12	0.09	0.06	0.05	NG	0.02	0.02	NG	0.5	0.1	ND	ND	0.01	ND	trace	NG		
ESS RW-1	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	
ESS RW-2	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	
ESS RW-4	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	0.5	NG	NG	NG	NG	NG	NG	NG	NG	
RW-1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	

Notes:

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the Former CNG Fueling Station portion of the Property

NG - Not Gauged

RCA-21 was destroyed in late June 2014 and replaced with RW-1

Please refer to Table 5 for monthly gauging and recovery data for GZ-307S

This table presents LNAPL thickness data for monitoring wells that have exhibited LNAPL thicknesses of at least trace amounts since 2001.

Gray shading indicates LNAPL thickness of equal to or more than 0.01 feet

ND - Not Detected

NI - Not Installed Yet

Dest - Destroyed

trace - sheen or less than 0.01 feet

Decom - Decommissioned

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	June 2010	January 2011	July 2011	August 2011	February 2012	July 2012	February 2013	November 2013	June 2014	July 2, 2014	July 23, 2014	October 2014	April 2015	October 2015	May 2016	October 2016	May 2017	March 2018	November 2018	June 2019	November 2019	June 2020	November 2020	
Natural Gas Regulation																								
RCA-11	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
RCA-15	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-1	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-2	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-3	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-6	NG	ND	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-9	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-10	ND	trace	trace	0.01	trace	0.02	ND	0.01	trace	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-18	ND	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-21	ND	ND	ND	ND	ND	0.01	0.01	trace	ND	0.08	ND	0.01	trace	0.01	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-22	NG	NG	0.01	ND	trace	0.04	ND	0.01	trace	NG	NG	0.04	0.01	0.03	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
VHB-23	NG	NG	0.01	0.05	trace	ND	0.01	ND	0.03	NG	NG	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-1	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-2	NG	NG	ND	ND	trace	ND	trace	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.89	0.3	Decom	Decom
GZ-307S	NI	NI	NI	NI	NI	NI	NI	NI	ND	ND	ND	ND	ND	ND	ND	0.08	0.05	0.02	0.36	trace	trace	trace	trace	ND
LNG Facility																								
RCA-4	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
RCA-6	NG	NG	ND	ND	ND	ND	ND	ND	NG	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-21	NG	NG	3.58	2.94	2.79	1.65	1.44	1.91	0.91	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-22	NG	ND	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-28	NG	ND	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-29	NG	NG	0.08	trace	trace	0.11	trace	ND	0.17	NG	NG	0.08	0.02	0.10	0.01	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
RCA-36	NG	NG	ND	ND	ND	ND	ND	ND	NG	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	Damaged	ND	ND	ND
RCA-39	NG	NG	ND	ND	ND	ND	ND	ND	NG	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	Decom	Decom	Decom	Decom
RCA-40	NG	NG	ND	ND	trace	trace	ND	ND	NG	NG	NG	ND	0.04	trace	0.02	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-3	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	trace	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-4	NG	NG	0.02	0.03	0.01	trace	trace	0.01	ND	NG	trace	trace	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-5	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	0.01	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-1	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	trace	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-2	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-4	NG	NG	ND	ND	ND	ND	ND	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RW-1	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.02	trace	0.01	trace	trace	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom

Notes:

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the Former CNG Fueling Station portion of the Property

NG - Not Gauged

RCA-21 was destroyed in late June 2014 and replaced with RW-1

Please refer to Table 5 for monthly gauging and recovery data for GZ-307S

This table presents LNAPL thickness data for monitoring wells that have exhibited LNAPL thicknesses of at least trace amounts since 2001.

Gray shading indicates LNAPL thickness of equal to or more than 0.01 feet

ND - Not Detected

NI - Not Installed Yet

Dest - Destroyed

trace - sheen or less than 0.01 feet

Decom - Decommissioned

TABLE 4
HISTORICAL DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	November 2001	September 2002	September 2003	September 2005	March 2008	December 2009	June 2010	January 2011	July 2011	August 2011	February 2012	July 2012	February 2013	November 2013	June 2014
RCA-3	0.17	trace	trace	trace	ND	ND	ND	trace	trace	trace	trace	trace	trace	trace	trace

Notes:

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the Former CNG Fueling Station portion of the Property

NG - Not Gauged

This table presents DNAPL thickness data for monitoring wells that have exhibited DNAPL thicknesses of at least trace amounts since trace - sheen or less than 0.01 feet

Gray shading indicates NAPL thickness of equal to or more than 0.01 feet

ND - Not Detected

NI - Not Installed Yet

Dest - Destroyed

Decom - Decommissioned

TABLE 4
HISTORICAL DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	July 2, 2014	July 23, 2014	October 2014	April 2015	October 2015	May 2016	October 2016	May 2017	March 2018	November 2018	June 2019	November 2019	November 2020
RCA-3	trace	trace	trace	trace	trace	trace	Decom	Decom	Decom	Decom	Decom	Decom	Decom

Notes:

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

NG - Not Gauged

This table presents DNAPL thickness data for monitoring wells that have exhibited DNAPL thicknesses of at least trace amounts since trace - sheen or less than 0.01 feet

Gray shading indicates DNAPL thickness of equal to or more than 0.01 feet

ND - Not Detected

NI - Not Installed Yet

Dest - Destroyed

Decom - Decommissioned

TABLE 5
LNAPL GAUGING AND RECOVERY - GZ-307S
642 Allens Avenue
Providence, Rhode Island

Date	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Estimated Volume Purged (gallons)
6/3/2014	ND	4.84	ND	NR
6/6/2014	ND	4.82	ND	NR
6/16/2014	ND	4.73	ND	NR
7/2/2014	ND	4.86	ND	NR
7/23/2014	ND	4.85	ND	NR
10/30/2014	ND	5.09	ND	NR
4/9/2015	ND	3.84	ND	NR
10/14/2015	ND	5.24	ND	NR
5/18/2016	4.47	4.55	0.08	NR
7/26/2016	5.10	5.36	0.26	NR
8/30/2016	3.95	4.00	0.05	NR
9/16/2016	5.26	5.59	0.33	NR
10/28/2016	5.05	5.10	0.05	NR
11/30/2016	4.80	4.84	0.04	NR
12/13/2016	4.95	5.04	0.09	NR
5/30/2017	3.67	3.69	0.02	NR
1/24/2018	3.28	3.50	0.22	NR
2/21/2018	3.23	3.52	0.29	NR
3/20/2018	3.23	3.59	0.36	NR
4/26/2018	5.98	6.98	1.00	NR
5/15/2018	3.97	4.47	0.50	trace
6/28/2018	4.80	4.88	0.08	NR
8/30/2018	4.07	4.54	0.47	NR
9/5/2018	4.67	4.75	0.08	1
10/1/2018	3.19	3.20	0.01	NR
10/30/2018	3.54	3.55	0.01	NR
11/14/2018	2.55	2.55	trace	NR
12/19/2018	3.64	3.64	trace	NR
1/30/2019	3.04	3.04	trace	NR
2/27/2019	3.12	3.15	0.03	NR
3/20/2019	3.14	3.14	trace	NR
4/22/2019	3.70	3.70	trace	NR
5/31/2019	3.75	3.75	trace	NR
6/26/2019	3.72	3.72	trace	NR
7/25/2019	3.70	3.70	trace	NR
8/22/2019	4.34	4.34	trace	NR
9/27/2019	5.57	5.70	0.13	NR
10/21/2019	4.28	4.28	trace	NR
11/21/2019	4.10	4.17	0.07	NR
12/18/2019	2.59	2.68	0.09	NR
1/24/2020	3.95	3.99	0.04	NR
2/24/2020	3.90	3.90	trace	NR
3/26/2020	3.38	3.38	trace	NR
4/23/2020	3.08	3.08	trace	NR
5/22/2020	3.60	3.60	trace	NR
6/9/2020	4.09	4.09	trace	NR
7/17/2020	3.47	3.47	trace	NR
8/20/2020	4.82	4.83	0.01	NR
9/22/2020	4.90	4.90	trace	NR
10/26/2020	4.50	4.50	trace	NR
11/23/2020	ND	4.14	ND	NR
12/11/2020	3.12	3.12	trace	NR

Notes: ND = Not Detected
NR = Not Recovered
trace = <0.01 feet product

TABLE 6
SUMMARY OF GROUNDWATER VOC ANALYTICAL RESULTS - 2019

642 Allens Avenue
 Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 20K0831-06 11/23/2020	RCA-12R 20K0831-12 11/23/2020	RCA-15 20K0831-03 11/23/2020	RCA-31 20K0831-01 11/23/2020	RCA-36 20K0831-05 11/23/2020	VHB-1 20K0831-02 11/23/2020	VHB-20 20K0831-07 11/23/2020	GZ-201 20K0831-13 11/23/2020	GZA-301D 20K0831-10 11/23/2020	GZ-304D 20K0831-11 11/23/2020	GZ-309D 20K0831-04 11/23/2020	GZ-319D 20K0831-08 11/23/2020
EPA Method 8260B VOLATILE ORGANICS															
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,1-Trichloroethane	mg/L	3.1	68	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1,2,2-Tetrachloroethane	mg/L	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1,1,2-Trichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloroethene	mg/L	0.007	23	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,1-Dichloropropene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,3-Trichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	0.0101	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1,2-Dibromoethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloroethane	mg/L	0.11	670	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,2-Dichloropropane	mg/L	3	140	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,3-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1,4-Dioxane - Screen	mg/L	NE	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
1-Chlorohexane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2,2-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Butanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2-Hexanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

TABLE 6
SUMMARY OF GROUNDWATER VOC ANALYTICAL RESULTS - 2019
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 20K0831-06 11/23/2020	RCA-12R 20K0831-12 11/23/2020	RCA-15 20K0831-03 11/23/2020	RCA-31 20K0831-01 11/23/2020	RCA-36 20K0831-05 11/23/2020	VHB-1 20K0831-02 11/23/2020	VHB-20 20K0831-07 11/23/2020	GZ-201 20K0831-13 11/23/2020	GZA-301D 20K0831-10 11/23/2020	GZ-304D 20K0831-11 11/23/2020	GZ-309D 20K0831-04 11/23/2020	GZ-319D 20K0831-08 11/23/2020
EPA Method 8260B VOLATILE ORGANICS															
4-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Isopropyltoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Acetone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzene	mg/L	0.14	18	<0.001	<0.001	<0.001	<0.001	0.0888	<0.001	0.0167	<0.001	<0.001	0.002	<0.001	0.0221
Bromobenzene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Bromoform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bromomethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Carbon Disulfide	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Carbon Tetrachloride	mg/L	0.07	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chlorobenzene	mg/L	3.2	56	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloroethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Chloroform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Chloromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
cis-1,2-Dichloroethene	mg/L	2.4	69	<0.001	0.0201	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.001	<0.001
cis-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Dibromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Diethyl Ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Di-isopropyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	1.6	16	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 6
SUMMARY OF GROUNDWATER VOC ANALYTICAL RESULTS - 2019
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 20K0831-06 11/23/2020	RCA-12R 20K0831-12 11/23/2020	RCA-15 20K0831-03 11/23/2020	RCA-31 20K0831-01 11/23/2020	RCA-36 20K0831-05 11/23/2020	VHB-1 20K0831-02 11/23/2020	VHB-20 20K0831-07 11/23/2020	GZ-201 20K0831-13 11/23/2020	GZA-301D 20K0831-10 11/23/2020	GZ-304D 20K0831-11 11/23/2020	GZ-309D 20K0831-04 11/23/2020	GZ-319D 20K0831-08 11/23/2020
EPA Method 8260B VOLATILE ORGANICS															
Hexachlorobutadiene	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Hexachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Isopropylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	0.006	0.0094	<0.001	0.0061	<0.001	<0.001	<0.001	
Methyl tert-Butyl Ether	mg/L	5	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Methylene Chloride	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Naphthalene	mg/L	2.67	NE	<0.001	<0.001	<0.001	<0.001	0.0031	<0.001	<0.001	0.0016	<0.001	<0.001	<0.001	
n-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	<0.001	<0.001	<0.001	
n-Propylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	0.0037	0.0014	<0.001	0.0034	<0.001	<0.001	<0.001	
sec-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	<0.001	0.0034	<0.001	<0.001	<0.001	
Styrene	mg/L	2.2	50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021	
tert-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tetrachloroethene	mg/L	0.15	NE	<0.001	0.0016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Tetrahydrofuran	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	mg/L	1.7	21	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
trans-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	
Trichloroethene	mg/L	0.54	87	<0.001	0.0059	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Trichlorofluoromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Vinyl Acetate	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Vinyl Chloride	mg/L	0.002	NE	<0.001	0.0014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene O	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	0.0036	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene P,M	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Xylenes (Total)	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	0.00359	<0.002	<0.002	<0.002	<0.002	<0.002	

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the Former CNG Fueling Station portion of the Property

NE = Not Established

Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.

Gray shaded cells and bolded text indicate the concentration exceeds the GB Groundwater Objective.

Underlined concentrations exceed the RIDEM GB Groundwater Upper Concentration Limit

Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.

TABLE 7
SUMMARY OF GROUNDWATER QAQC VOC ANALYTICAL RESULTS
642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01

3/9/2021

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	GZA-301D 20K0831-10 11/23/2020	BD-112320 20K0831-09 11/23/2020	Trip Blank 20K0831-14 11/23/2020
EPA Method 8260B VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	3.1	68	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	NE	NE	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/L	0.007	23	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/L	NE	NE	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.11	670	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/L	3	140	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
1,4-Dioxane - Screen	mg/L	NE	NE	<0.5	<0.5	<0.5
1-Chlorohexane	mg/L	NE	NE	<0.001	<0.001	<0.001
2,2-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001
2-Butanone	mg/L	NE	NE	<0.01	<0.01	<0.01
2-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001
2-Hexanone	mg/L	NE	NE	<0.01	<0.01	<0.01
4-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/L	NE	NE	<0.001	<0.001	<0.001
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.025	<0.025	<0.025
Acetone	mg/L	NE	NE	<0.01	<0.01	<0.01
Benzene	mg/L	0.14	18	<0.001	<0.001	<0.001
Bromobenzene	mg/L	NE	NE	<0.002	<0.002	<0.002
Bromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	NE	NE	<0.0006	<0.0006	<0.0006
Bromoform	mg/L	NE	NE	<0.001	<0.001	<0.001
Bromomethane	mg/L	NE	NE	<0.002	<0.002	<0.002
Carbon Disulfide	mg/L	NE	NE	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.07	NE	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	3.2	56	<0.001	<0.001	<0.001
Chloroethane	mg/L	NE	NE	<0.002	<0.002	<0.002
Chloroform	mg/L	NE	NE	<0.001	<0.001	<0.001
Chloromethane	mg/L	NE	NE	<0.002	<0.002	<0.002
cis-1,2-Dichloroethene	mg/L	2.4	69	<0.001	0.0217	<0.001
cis-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004
Dibromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001
Dibromomethane	mg/L	NE	NE	<0.001	<0.001	<0.001
Dichlorodifluoromethane	mg/L	NE	NE	<0.002	<0.002	<0.002
Diethyl Ether	mg/L	NE	NE	<0.001	<0.001	<0.001
Di-isopropyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	1.6	16	<0.001	<0.001	<0.001
Hexachlorobutadiene	mg/L	NE	NE	<0.0006	<0.0006	<0.0006
Hexachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001
Isopropylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	5	NE	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	NE	NE	<0.002	<0.002	<0.002
Naphthalene	mg/L	2.67	NE	<0.001	<0.001	<0.001
n-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
n-Propylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
sec-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
Styrene	mg/L	2.2	50	<0.001	<0.001	<0.001
tert-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.15	NE	<0.001	0.002	<0.001
Tetrahydrofuran	mg/L	NE	NE	<0.005	<0.005	<0.005
Toluene	mg/L	1.7	21	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004
Trichloroethene	mg/L	0.54	87	<0.001	0.0078	<0.001
Trichlorofluoromethane	mg/L	NE	NE	<0.001	<0.001	<0.001
Vinyl Acetate	mg/L	NE	NE	<0.005	<0.005	<0.005
Vinyl Chloride	mg/L	0.002	NE	<0.001	0.0012	<0.001
Xylene O	mg/L	NE	NE	<0.001	<0.001	<0.001
Xylene P,M	mg/L	NE	NE	<0.002	<0.002	<0.002
Xylenes (Total)	mg/L	NE	NE	<0.002	<0.002	<0.002

Notes

NE = Not Established

Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.

Gray shaded cells and bolded text indicate the concentration exceeds the GB Groundwater Objective.

Underlined concentrations exceed the RIDEM GB Groundwater Upper Concentration Limit

Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.

BD-112320 is a blind duplicate of GZA-301D



FIGURES

NATIONAL GRID MONITORING REPORT - 2020

FORMER MANUFACTURED GAS PLANT (MGP) 642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

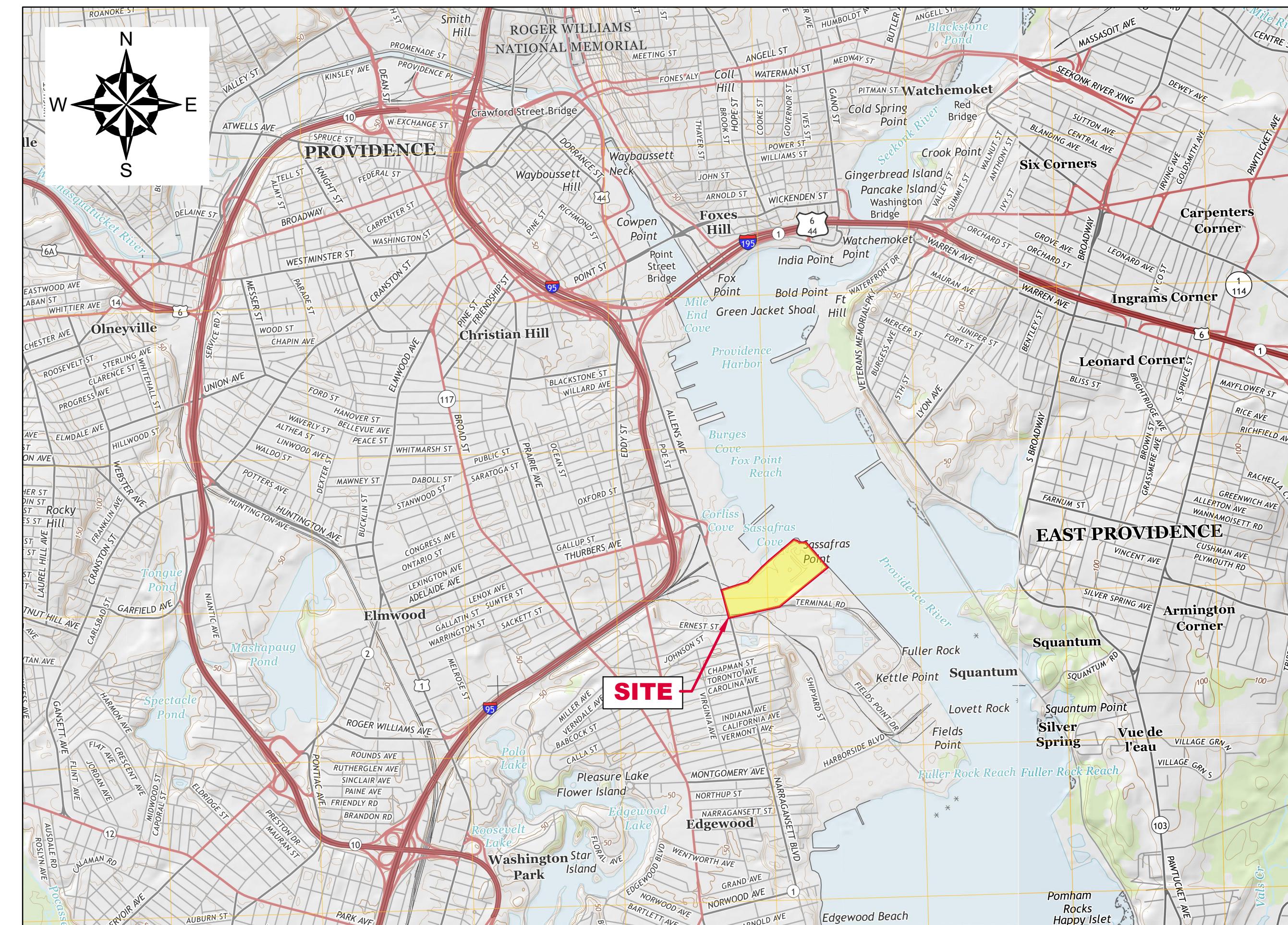
JANUARY 2021

PREPARED FOR:

nationalgrid

PREPARED BY:

GZA GEOENVIRONMENTAL, INC.
188 VALLEY STREET, SUITE 300
PROVIDENCE, RHODE ISLAND 02909



LOCUS MAP

SOURCE: USGSSTORE.GOV

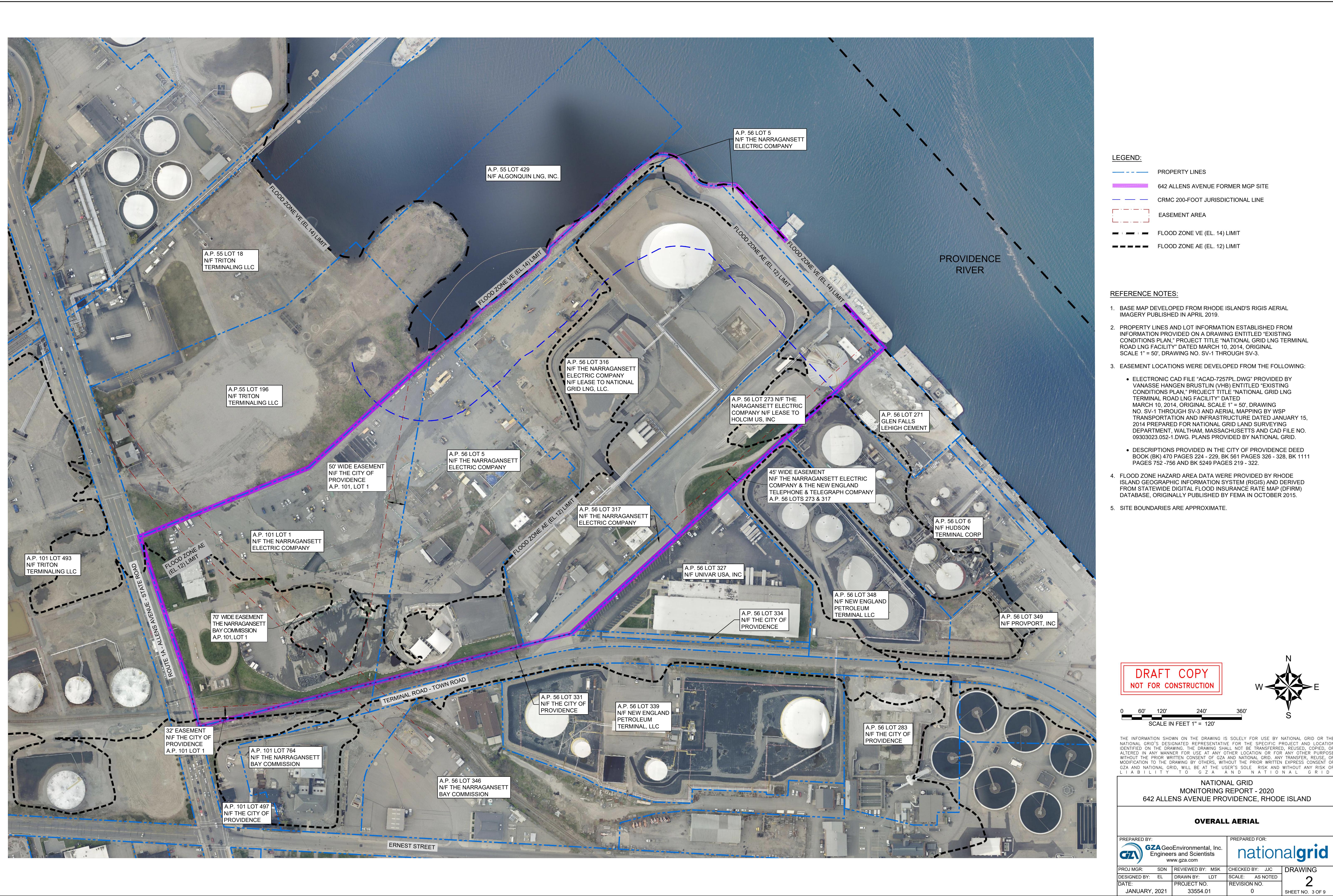
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SCALE: 1 INCH = 2000 FEET

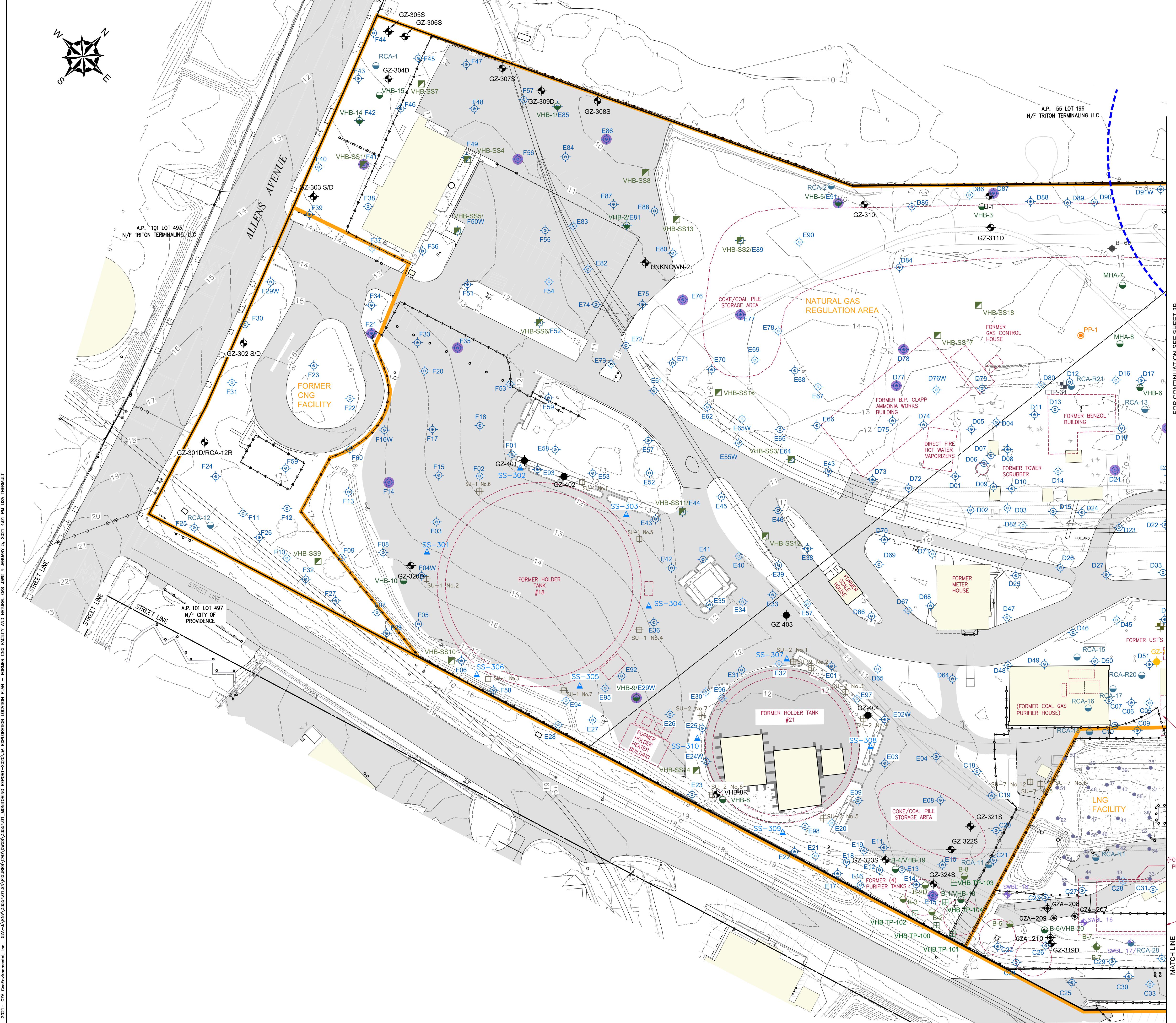
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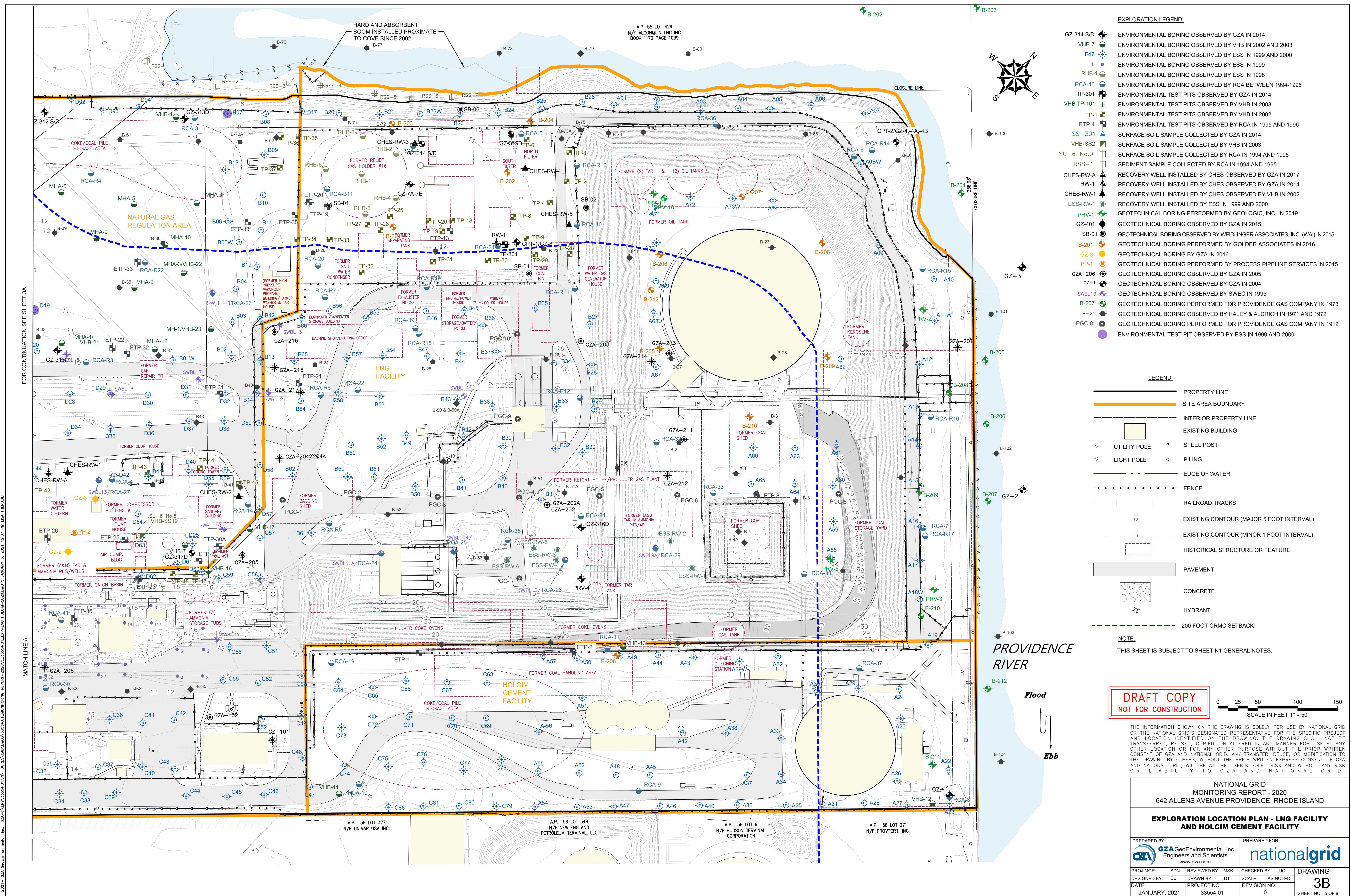
THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHOULD NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

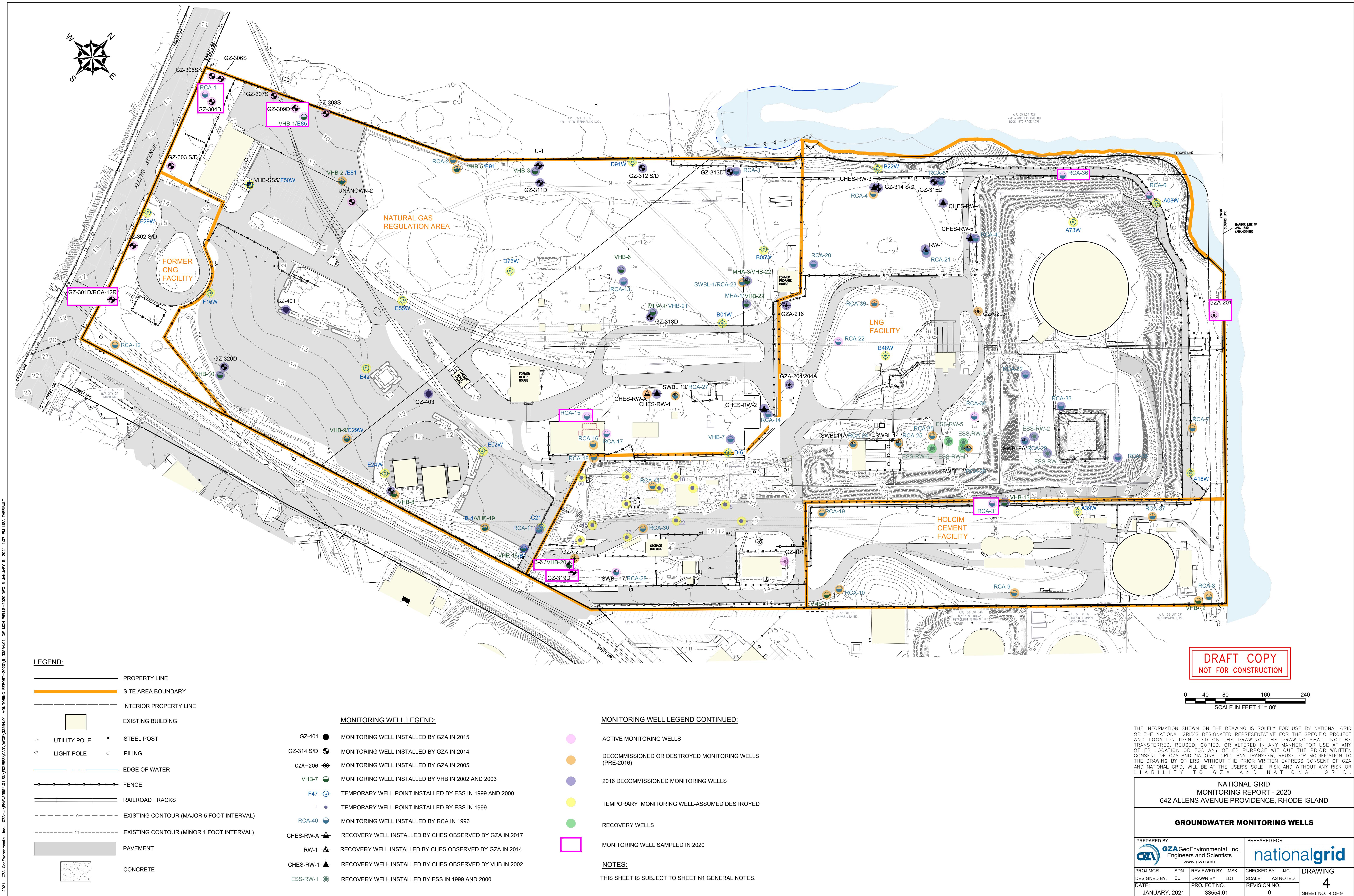
INDEX OF DRAWINGS	
SHEET #	TITLE
C1	TITLE SHEET AND INDEX TO DRAWINGS
N1	GENERAL NOTES AND LEGEND
2	OVERALL AERIAL
3A	EXPLORATION LOCATION PLAN - FORMER CNG FACILITY AND NATURAL GAS REGULATION FACILITY
3B	EXPLORATION LOCATION PLAN - LNG FACILITY AND HOLCIM CEMENT FACILITY
4	GROUNDWATER MONITORING WELLS
5	SHALLOW GROUNDWATER CONTOURS (NOVEMBER 2020)
6	HISTORICAL NAPL THICKNESS (>0.01 FEET) (2001-2020)
7	2020 NAPL AND GROUNDWATER ANALYTICAL DATA

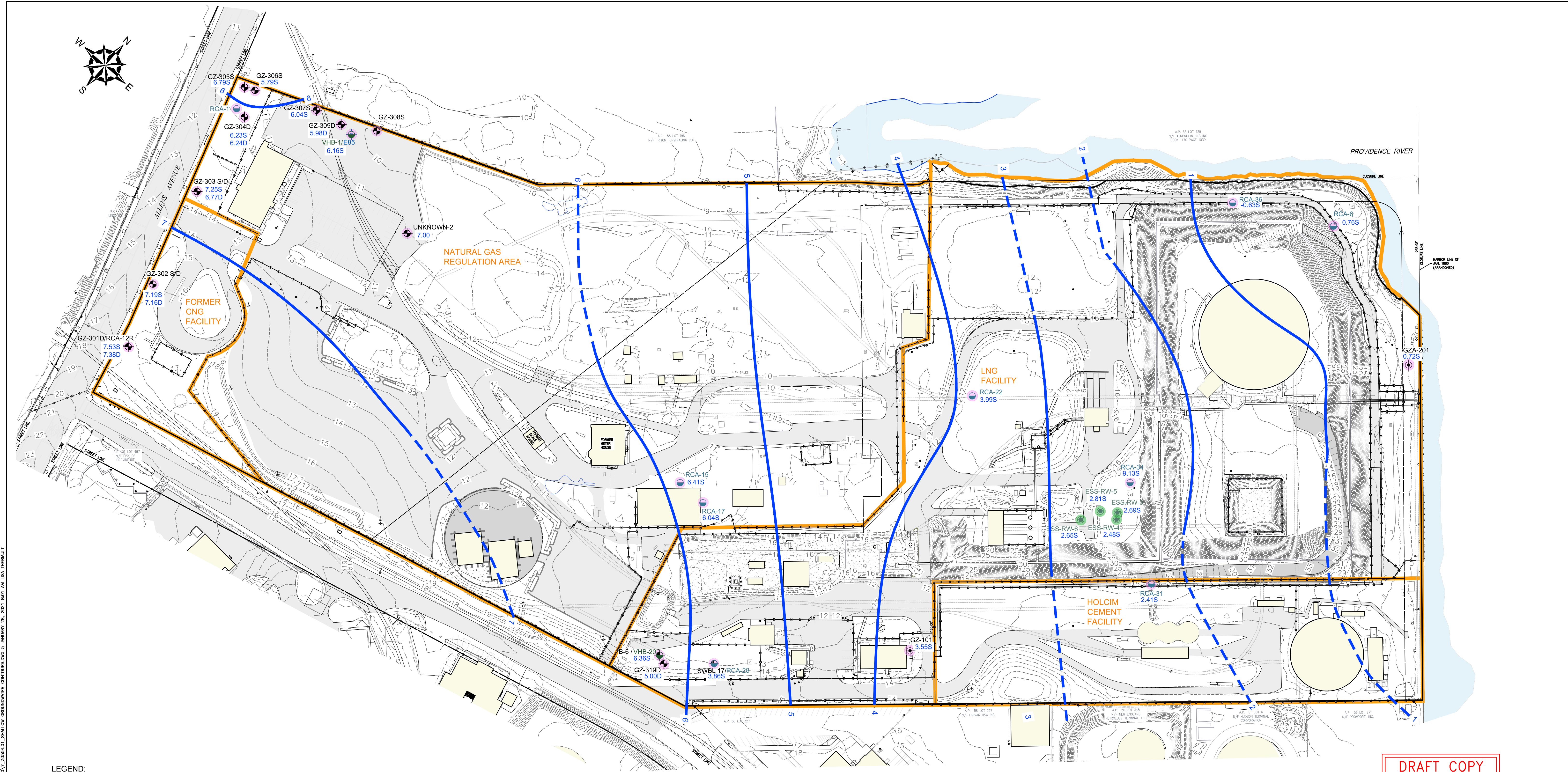











LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE

- EXISTING BUILDING
- UTILITY POLE
- LIGHT POLE
- EDGE OF WATER

- FENCE
- RAILROAD TRACKS

- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)

- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)

- PAVEMENT

- CONCRETE

MONITORING WELL LEGEND:

- UNKNOWN-2: MONITORING WELL FOUND IN 2019
- GZ-314 S/D: MONITORING WELL INSTALLED BY GZA IN 2014
- GZ-206: MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7: MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47: TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- RCA-40: MONITORING WELL INSTALLED BY RCA IN 1996
- ESS-RW-1: RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000

- 2.93S
2.56D: GROUNDWATER ELEVATION OBSERVED ON NOVEMBER 23, 2020 (IN FEET RELATIVE TO NAVD 1988)
- S: INDICATES THE MONITORING WELL SCREEN IS SHALLOW (GENERALLY AT THE NATURAL WATER TABLE)
- D: INDICATES THE MONITORING WELL SCREEN IS DEEP (GENERALLY DEEPER THAN THE NATURAL WATER TABLE)

MONITORING WELL LEGEND CONTINUED:

- MONITORING WELLS
- RECOVERY WELLS

- 5: SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020
- 4: INFERRRED SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020

GROUNDWATER CONTOUR NOTES:

1. SHALLOW GROUNDWATER CONTOURS (NAVD 1988) ARE BASED ON DATA FROM WIDELY SPACED EXPLORATIONS AND MAY NOT REFLECT ACTUAL SUBSURFACE CONDITIONS. WATER LEVEL READINGS WERE ON NOVEMBER 23, 2020.

2. WATER LEVEL READINGS HAVE BEEN MADE IN THE MONITORING WELLS AT THE TIMES AND UNDER THE CONDITIONS STATED IN THE TEXT OF THIS REPORT. THESE DATA HAVE BEEN REVIEWED AND INTERPRETATIONS MADE IN THE TEXT OF THIS REPORT. HOWEVER, FLUCTUATIONS IN THE LEVEL OF THE GROUNDWATER MAY OCCUR DUE TO VARIATIONS IN RAINFALL, TEMPERATURE AND OTHER FACTORS.

NOTES:

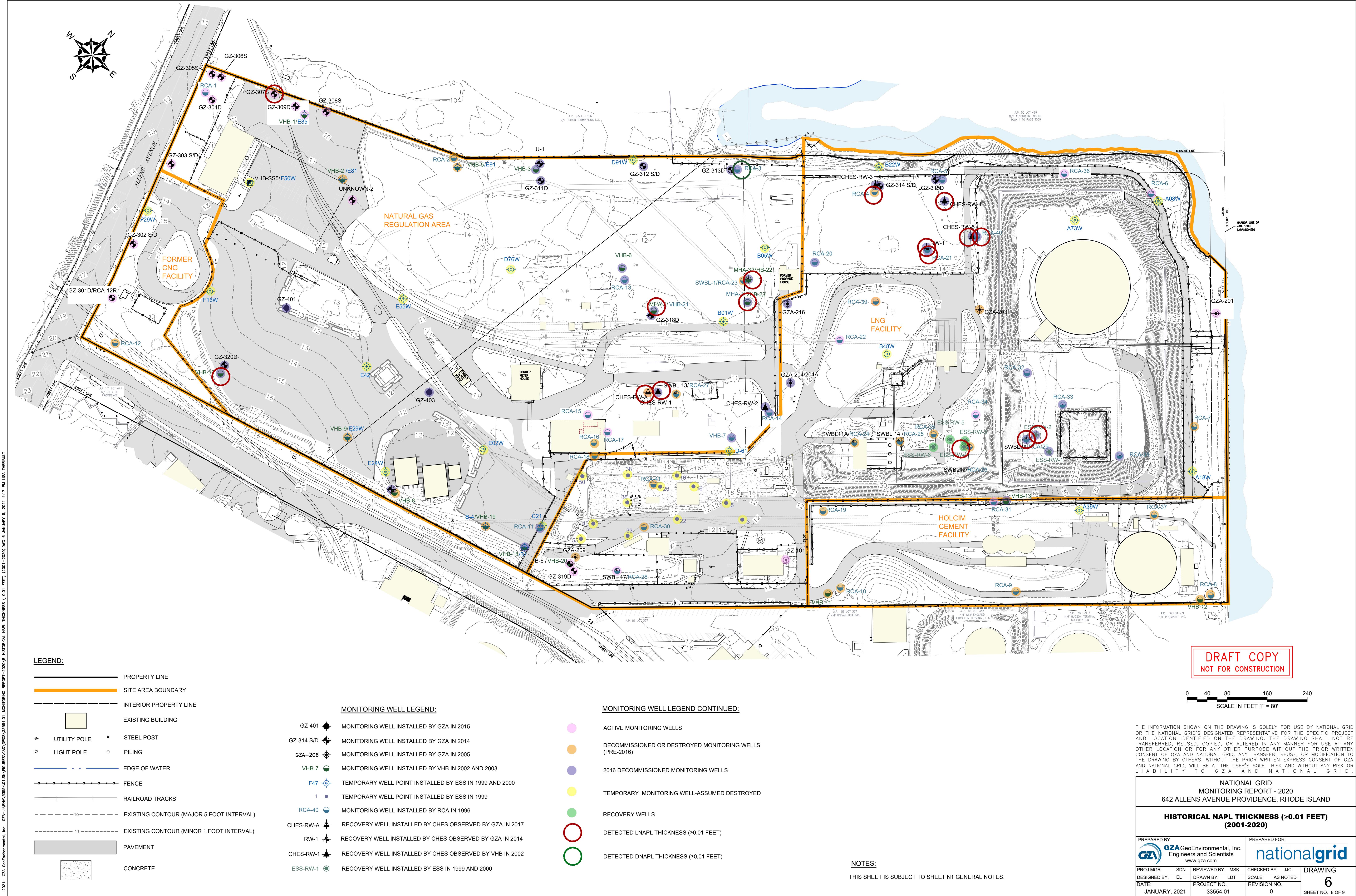
1. THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.
2. MONITORING WELL GZ-308S WAS UNABLE TO BE GAUGED DURING THE NOVEMBER 2020 GAUGING ROUND DUE TO CONSTRUCTION MATERIALS OBSTRUCTING ACCESS.
3. MONITORING WELL UNKNOWN-2 WAS GAUGED ON DECEMBER 21, 2020.

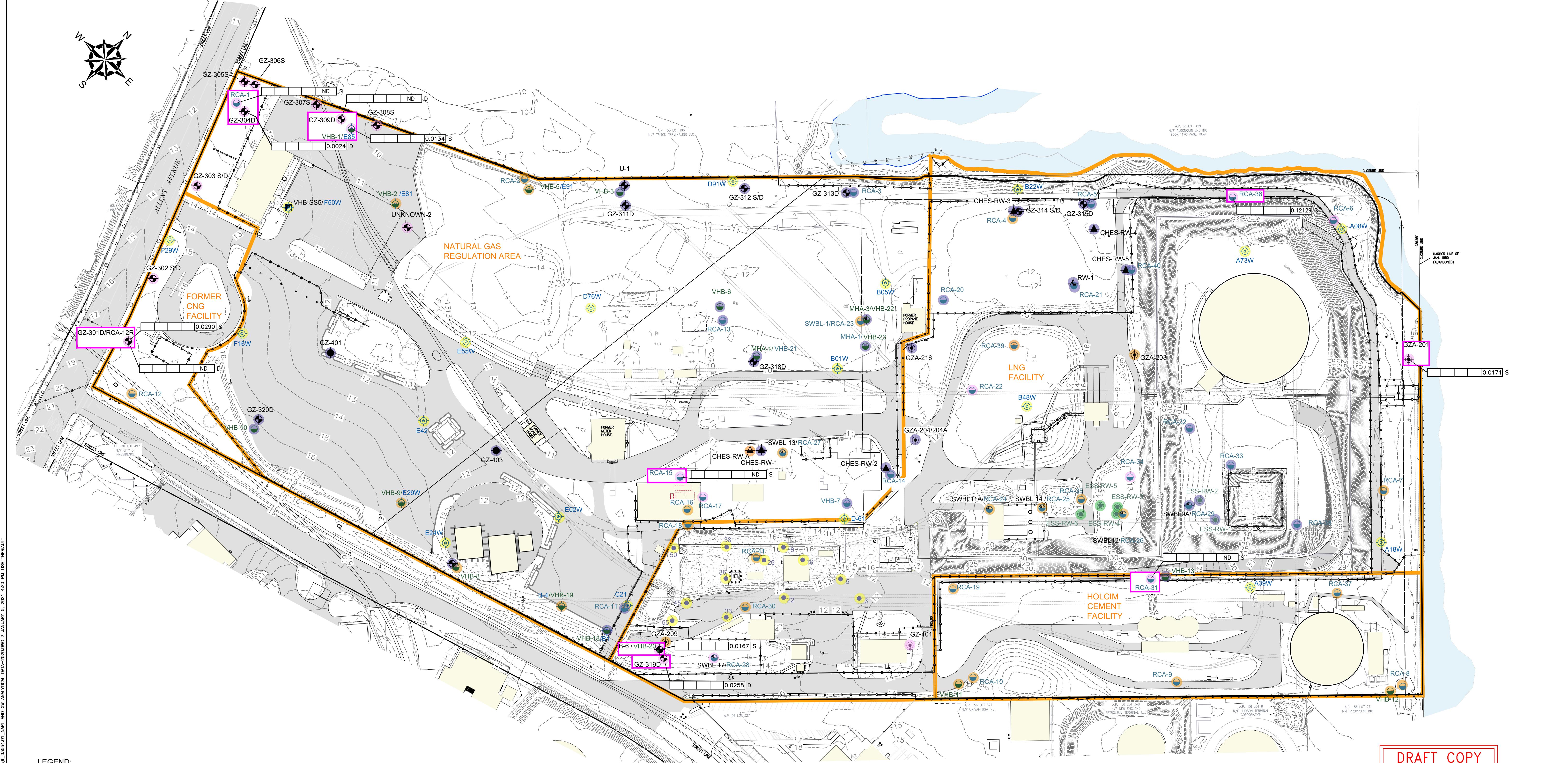
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NATIONAL GRID
MONITORING REPORT - 2020
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

SHALLOW GROUNDWATER CONTOURS

PREPARED BY:	PREPARED FOR:			
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		nationalgrid		
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DESIGNED BY: EL	DRAWN BY: LDT
DATE: JANUARY, 2021	PROJECT NO.: 33554.01	REVISION NO: 0	SCALE: AS NOTED	DRAWING NO: 5





LEGEND:

G2A-3554-01 SN/FIGURE 04(D) DRAFT NPL AND GW ANALYTICAL DATA - 2020.DWG 7 JANUARY 5, 2021 4:23 PM USA THERMUT

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- LIGHT POLE
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- PAVEMENT
- CONCRETE

MONITORING WELL LEGEND:

- GZ-401 MONITORING WELL INSTALLED BY GZA IN 2015
- GZ-314 S/D MONITORING WELL INSTALLED BY GZA IN 2014
- GZA-206 MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7 MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47 TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- 1 TEMPORARY WELL POINT INSTALLED BY ESS IN 1999
- RCA-40 MONITORING WELL INSTALLED BY RCA IN 1996
- CHES-RW-A RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND CONTINUED:

- ACTIVE MONITORING WELLS
- DECOMMISSIONED OR DESTROYED MONITORING WELLS (PRE-2016)
- 2016 DECOMMISSIONED MONITORING WELLS
- TEMPORARY MONITORING WELL-ASSUMED DESTROYED
- RECOVERY WELLS
- MONITORING WELL SAMPLED IN 2020

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

EXCEEDANCES OF THE RIDEM METHOD 1 AND 2 GB GROUNDWATER OBJECTIVES:

AGGREGATE VOC CONCENTRATION [PPM]	
0.008 S	INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP
VINYL CHLORIDE [GB= 0.002 PPM]	
NAPHTHALENE [GB= 2.67 PPM]	
BENZENE [GB= 0.14 PPM]	
ETHYLBENZENE [GB= 1.6 PPM]	

PRESENCE OF MEASURABLE NAPL (>0.01 FT) FOR 2017	
(S/D)	INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP

ND NOT DETECTED

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0 40 80 160 240
SCALE IN FEET 1" = 80'

THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

NATIONAL GRID
MONITORING REPORT - 2020
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	nationalgrid
PROJ MGR:	SDN	REVIEWED BY:	MSK
DESIGNED BY:	EL	DRAWN BY:	LDT
DATE:	JANUARY, 2021	SCALE:	AS NOTED
	33554.01	REVISION NO.	0
		DRAWING	7
		SHEET NO.	9 OF 9



APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

1. This *Groundwater Monitoring Report* has been prepared on behalf of and for the exclusive use of The Narragansett Electric Company d/b/a National Grid, solely for use in documenting the conditions observed at the property located at 642 Allens Avenue in Providence, Rhode Island ("Site"). This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of GZA or National Grid.
2. GZA's work was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and GZA observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. GZA's findings and conclusions must be considered not as scientific certainties, but rather as our professional opinion concerning the significance of the limited data gathered during the course of the study. No other warranty, express 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 the performance of our Site investigations.
3. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based upon services performed and observations made by GZA.
4. In the event that National Grid or others authorized to use this report obtain 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.
5. The conclusions and recommendations contained in this report are based in part upon the data obtained from environmental samples obtained from relatively widely spread subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
6. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more gradual. For specific information, refer to the boring logs.

7. In the event this work included the collection of water level data, these readings have been made in the test pits, borings and/or observation wells at times and under conditions stated on the exploration logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.
8. The conclusions contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA and the conclusions and recommendations presented herein modified accordingly.



APPENDIX B

GROUNWATER SAMPLING LOW FLOW LOGS

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain 50's

Well ID: GZ-201
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1026

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					20.92	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					8.81	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					10 to 20	

Standing Water in Well (feet):	12.11
Well Diameter (in.)	2"
Sample Depth (feet BGS):	15
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump **No.** _____ **Rental** _____ **Flow-Thru Cell Vol (mL):** _____ 250

Motor Type: VSI **No.** _____ **Rental** _____

[View Details](#) | [Edit](#) | [Delete](#)

INSTRUMENT MEASUREMENTS:

Start time: 1057

Stop time: 1157

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1157

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: Dull Sheen

Odor: None

Clarity: Slight turbidity

Total Purge Volume: 3.5 gal

Tubing Volume: 0.0375 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Mostly Cloudy 50's

Well ID: GZ-301D
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1256

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):				29.65		
Depth to LNAPL (feet):				--		
Depth to Water (feet):				9.95		
Depth to DNAPL (feet):				--		
Well Screened Interval (feet BGS):				20	to	30

Standing Water in Well (feet):	19.7
Well Diameter (in.)	2"
Sample Depth (feet BGS):	25
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump No. Rental _____ Flow-Thru Cell Vol (mL): 250 _____

Meter Type: VSI No. Rental _____

INSTRUMENT MEASUREMENTS:

Start time: 1335

Stop time: 1503

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1503

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: Dull Sheen

Odor: None

Clarity: Clear

Total Purge Volume: 4 gal

Tubing Volume: 0.0625 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Mostly Cloudy 50's

Well ID: GZ-304D
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1320

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					29.6	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					5.71	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					20 to 30	

Standing Water in Well (feet):	23.89
Well Diameter (in.)	2"
Sample Depth (feet BGS):	25
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Pump Type: Geopump **No.** _____ **Rental** _____ **Flow-Thru Cell Vol (mL):** 250

Motor Type: VSI **No.** _____ **Rental** _____

Model Type: TSI NO. Recital

INSTRUMENT MEASUREMENTS:

Flow-Thru Cell Vol (mL): 250

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1633

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Slightly Turbid

Total Purge Volume: 2.5 gal

Tubing Volume: 0.0625 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain 50's

Well ID: GZ-319D
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux / Sarah Mcleod

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 0740

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):				32.69		
Depth to LNAPL (feet):				--		
Depth to Water (feet):				9.90		
Depth to DNAPL (feet):				--		
Well Screened Interval (feet BGS):				20	to	30

Standing Water in Well (feet):	22.79
Well Diameter (in.)	2"
Sample Depth (feet BGS):	25
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT

Sample Method: Bail Pump / Low Flow

Meter Type: YSI **No.** _____ **Rental** _____

INSTRUMENT MEASUREMENTS:

Start time: 755

Stations 845

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 845

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: Rusty Orange

Odor: Oil-like

Clarity: Slightly Turbid

Total Purge Volume: 2 gal

Tubing Volume: 0.0625 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Mostly Cloudy, 50's

Well ID: RCA-1
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1323

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):				14.38		
Depth to LNAPL (feet):				--		
Depth to Water (feet):				5.60		
Depth to DNAPL (feet):				--		
Well Screened Interval (feet BGS):				5 to 15		

Standing Water in Well (feet):	8.78
Well Diameter (in.)	2"
Sample Depth (feet BGS):	10
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump No. Rental _____ Flow-Thru Cell Vol (mL): 250 _____

Meter Type: VSI No. Rental _____

INSTRUMENT MEASUREMENTS:

Start time: 1550

Stop time: 1609

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1609

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Clear

Total Purge Volume: 1.5 gal

Tubing Volume: 0.0625 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
 Project: 642 Allens Ave
 Location: City: Providence State: Rhode Island
Weather: Rain, 50's

Well ID: RCA-12R
 Sample Date: 11/23/2020
 Sampler's Name: Sarah Mcleod/Elizabeth Lux

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1258

Point of Measurement: PVC Riser Steel Casing Ground
 Total Well Depth (feet): 14.58
 Depth to LNAPL (feet): --
 Depth to Water (feet): 9.80
 Depth to DNAPL (feet): --
 Well Screened Interval (feet BGS): 5 to 15

Standing Water in Well (feet): 4.78
 Well Diameter (in.) 2"
 Sample Depth (feet BGS): 12
 Standpipe: TPVC to Ground Surface (feet) -
 Roadbox: TPVC to Ground Surface (feet) -

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

EQUIPMENT

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump No. Rental Flow-Thru Cell Vol (mL): 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1330

Stop time: 1526

Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	1 ORP (mvolts) (± 10)	2 pH (s.u.) (± 0.1)	3 Spec. Cond. ($\mu\text{S}/\text{cm}$) ($\pm 3\%$)	4 DO (mg/L) ($\pm 10\%$ or 3 rdgs <0.5)	5 Temperature ($^{\circ}\text{C}$) ($\pm 3\%$)	6 Turbidity (ntu) ($\pm 10\%$ or <5ntu)	7 Flow (ml/min) (<500 ml/min)	8 Notes
1335	9.95	95.60	6.48	0.1397	7.19	15.20	77.00	150	
1348	9.95	110.90	6.42	.220.3	4.99	15.60	45.05	150	
1351	9.95	112.20	6.42	.232.7	4.60	15.20	41.55	150	
1354	9.95	114.20	6.41	0.2788	3.61	15.60	41.55	150	
1357	9.95	114.20	6.40	0.2852	3.40	15.60	36.06	150	
1400	9.95	114.60	6.39	0.325	2.99	15.60	39.00	150	
1403	9.95	113.50	6.36	387.9	2.69	15.70	50.00	150	
1406	9.95	113.30	6.36	397.4	2.62	15.80	50.14	150	
1409	9.95	112.90	6.34	440.5	2.46	15.80	53.74	150	
1412	9.95	113.60	6.32	519	2.16	15.90	47.11	150	
1415	9.95	113.60	6.30	599	1.88	15.90	37.00	150	
-	-	-	-	-	-	-	-	-	*Reading recording stopped to
1518	10.00	72.90	6.04	2269	0.51	15.80	<5	200	allow additional time to stabilize
1521	10.00	79.90	6.04	2263	0.37	15.80	<5	200	
1524	10.00	84.20	6.03	2316	0.30	15.80	<5	200	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1526

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None Odor: None Clarity: Clear

Total Purge Volume: 5 gal

Tubing Volume: 0.03 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: RCA-36
Sample Date: 11/23/2020
Sampler's Name: Tolu Adekanye

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1038

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					12.45	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					11.14	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					5 to 15	

Standing Water in Well (feet):	1.31
Well Diameter (in.)	2"
Sample Depth (feet BGS):	12
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Pump Type: Geopump **No.** _____ **Rental** _____ **Flow-Thru Cell Vol (mL):** 250

Meter Type: TSI NO. _____ Rental _____

Flow-Thru Cell Vol (mL): 250

INSTRUMENT MEASUREMENTS:

Start time: 1128

Stop time: 1143

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1143

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Clear

Total Purge Volume: 3 gal

Tubing Volume: 0.03 gal

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:

Due to lack of water int the well, well was sampled at 12ft bgs.

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: RCA-31
Sample Date: 11/23/2020
Sampler's Name: Tolu Adekanye

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 0747

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					13.82	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					12.57	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					5 to 15	

Standing Water in Well (feet):	1.25
Well Diameter (in.)	2"
Sample Depth (feet BGS):	13
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

INSTRUMENT MEASUREMENTS:

Start time: 910

Stop time: 940

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 940

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Clear

Total Purge Volume: 2.5 gal

Tubing Volume: 0.03 gal

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:

Due to lack of water int the well, well was sampled at 13ft bgs.

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: VHB-1
Sample Date: 11/23/2020
Sampler's Name: Tolu Adekanye

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1318

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					11.35	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					4.17	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					2 to 12	

Standing Water in Well (feet):	7.18
Well Diameter (in.)	2"
Sample Depth (feet BGS):	7
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump **No.** 2 **Rental** **Flow-Through Cell Vol (mL):** 250

Meter Type: YSI **No. 2** **Rental**

INSTRUMENT MEASUREMENTS:

Start time: 1337

Station 1412

SAMPLE TESTING INFORMATION:

SAMPLE TIME:

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: Rusty Brown

Odor: Oil-like

Clarity: Dull-moderate plates of sheen

Total Purge Volume: 2 gal

Tubing Volume: 0.0175 gal

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:

Standing water noted at well.

The water was slightly carbonated with the presence of bubbles.

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: GZ-309D
Sample Date: 11/23/2020
Sampler's Name: Tolu Adekanye

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1316

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					20.1	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					3.85	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					20 to 30	

Standing Water in Well (feet):	26.25
Well Diameter (in.)	2"
Sample Depth (feet BGS):	25
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Pump Type: Geopump **No. 2** **Rental** **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI **No. 2** **Rental**

INSTRUMENT MEASUREMENTS:

Start time: 1330

Station 1512

SAMPLE TESTING INFORMATION:

SAMPLE TIME:

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: Sulfur-Like

Clarity: Clear

Total Purge Volume: 7 gal

Tubing Volume: 0.0625 gal

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:

Standing water noted at well.

The water was slightly carbonated with the presence of bubbles.

Depth to water constantly increasing, possibly due to restricted flow from screened interval. Peak high tide occurred during the time of sampling at this well.

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: RCA-15
Sample Date: 11/23/2020
Sampler's Name: Tolu Adekanye

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 1240

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					18.1	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					7.65	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					4 to 14	

Standing Water in Well (feet):	10.45
Well Diameter (in.)	2"
Sample Depth (feet BGS):	10
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT Sample Method: Bail Pump / Low Flow

Sample Method: Bail Pump / Low Flow

Meter Type: TSI NO. 2 Recital

INSTRUMENT MEASUREMENTS:

Start time: 1615

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1625

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Clear

Total Purge Volume: 5 gal

Tubing Volume: 0.025 gal

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:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain 50's

Well ID: VHB-20
Sample Date: 11/23/2020
Sampler's Name: Elizabeth Lux/ Sarah Mcleod

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/23/2020 0735

Point of Measurement:	PVC Riser	<input checked="" type="checkbox"/>	Steel Casing	<input type="checkbox"/>	Ground	<input type="checkbox"/>
Total Well Depth (feet):					17.4	
Depth to LNAPL (feet):					--	
Depth to Water (feet):					8.62	
Depth to DNAPL (feet):					--	
Well Screened Interval (feet BGS):					6 to 16	

Standing Water in Well (feet):	8.78
Well Diameter (in.)	2"
Sample Depth (feet BGS):	11
Standpipe: TPVC to Ground Surface (feet)	-
Roadbox: TPVC to Ground Surface (feet)	-

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

EQUIPMENT

Sample Method: Bail Pump / Low Flow

INSTRUMENT MEASUREMENTS:

Start time: 810

Stop time: 910

SAMPLE TESTING INFORMATION:

SAMPLE TIME:

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:

Color: None

Odor: None

Clarity: Clear

Total Purge Volume: 2.5 gal

Tubing Volume: 0.0275 gal

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:

LOW FLOW CALIBRATION SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: RI

Page: 1 of 2
Date: 11/19/2020

LOW FLOW CALIBRATION: YSI - SN 3520-1156

Initial Reading:

Specific Conductance:	Instrument and Number <u>YSI</u>	Standard Solution: <u>1000</u>	Reading: <u>1083</u>
pH (s.u.):	Instrument and Number <u>YSI</u>	Standard Solution: <u>4 / 7 / 10</u>	Reading: <u>4 / 6.94 / 10.03</u>
DO (mg/L):	Instrument and Number <u>YSI</u>	Standard Solution: <u>100%</u>	Reading: <u>101.40%</u>
ORP (mvolts:)	Instrument and Number <u>YSI</u>	Standard Solution: <u>237.5</u>	Reading: <u>240</u>
Turbidity (NTU):	Instrument and Number <u>Lamotte</u>	Standard Solution: <u>0 / 126</u>	Reading: <u>0.1 / 127.5</u>

Calibration:

Specific Conductance:	Instrument and Number <u>YSI</u>	Standard Solution: <u>1000</u>	Reading: <u>1000</u>
pH (s.u.):	Instrument and Number <u>YSI</u>	Standard Solution: <u>4 / 7 / 10</u>	Reading: <u>4 / 7.03 / 10.09</u>
DO (mg/L):	Instrument and Number <u>YSI</u>	Standard Solution: <u>100%</u>	Reading: <u>101.4</u>
ORP (mvolts:)	Instrument and Number <u>YSI</u>	Standard Solution: <u>237.5</u>	Reading: <u>233</u>
Turbidity (NTU):	Instrument and Number <u>Lamotte</u>	Standard Solution: <u>0 / 126</u>	Reading: <u>0 / 124</u>

LOW FLOW CALIBRATION SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: RI

Page: 2 of 2
Date: 11/19/2020

LOW FLOW CALIBRATION: YSI - SN 3520-1109

Initial Reading:

Specific Conductance:	Instrument and Number <u>YSI</u>	Standard Solution: <u>1000</u>	Reading: <u>1029</u>
pH (s.u.):	Instrument and Number <u>YSI</u>	Standard Solution: <u>4 / 7 / 10</u>	Reading: <u>4.2 / 7.1 / 10.1</u>
DO (mg/L):	Instrument and Number <u>YSI</u>	Standard Solution: <u>100%</u>	Reading: <u>102.10%</u>
ORP (mvolts:)	Instrument and Number <u>YSI</u>	Standard Solution: <u>237.5</u>	Reading: <u>236.9</u>
Turbidity (NTU):	Instrument and Number <u>Lamotte</u>	Standard Solution: <u>0 / 126</u>	Reading: <u>0.3 / 128.9</u>

Calibration:

Specific Conductance:	Instrument and Number <u>YSI</u>	Standard Solution: <u>1000</u>	Reading: <u>1000</u>
pH (s.u.):	Instrument and Number <u>YSI</u>	Standard Solution: <u>4 / 7 / 10</u>	Reading: <u>4 / 7.3 / 10</u>
DO (mg/L):	Instrument and Number <u>YSI</u>	Standard Solution: <u>100%</u>	Reading: <u>101.4</u>
ORP (mvolts:)	Instrument and Number <u>YSI</u>	Standard Solution: <u>237.5</u>	Reading: <u>238.9</u>
Turbidity (NTU):	Instrument and Number <u>Lamotte</u>	Standard Solution: <u>0 / 126</u>	Reading: <u>0 / 124</u>



APPENDIX C

INVESTIGATION DERIVED WASTE SHIPPING RECORDS

Truck# 621134

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number R1D007918774	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 013773799 FLE				
5. Generator's Name and Mailing Address Narragansett Electric Company 40 Sylvan Road Waltham, MA 02451 Generator's Phone: (781) 907-3647		Generator's Site Address (if different than mailing address) 642 Allens Avenue Providence, RI 02905							
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		U.S. EPA ID Number MAD039322250							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730 Facility's Phone: (870) 863-7173		U.S. EPA ID Number ARD069748192							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
			No.	Type			R015		
		1. NON DOT REGULATED MATERIAL. (PURGEWATER, OIL)	001	DM	40	G			
		2. NON DOT REGULATED MATERIAL. (OILY DEBRIS)	001	DM	75	P	R015		
		3.							
	4.								
14. Special Handling Instructions and Additional Information 1. T26781NAPLRI 1X55 2. R40179RIR 1X55									
Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience, or safety.									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of the consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Jim D'Wolf Agent for Narragansett Electric			Signature [Signature]		\$1215	Month 05	Day 31	Year 2020	
INT'L	16. International Shipments		<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:				
	Transporter signature (for exports only):								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Greg Lunn		Signature [Signature]		\$1215	Month 05	Day 31	Year 2020	
Transporter 2 Printed/Typed Name [Signature]									
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space		<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection		
	Manifest Reference Number:								
	18b. Alternate Facility (or Generator)		U.S. EPA ID Number						
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)		Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H040		2. H040		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Taylor Cheeks		Signature [Signature]		\$1215	Month 04	Day 25	Year 2020		

as it is

the last

should not go

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number RID 007918774	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 014554206 FLE					
5. Generator's Name and Mailing Address Narragansett Electric Company 40 Sylvan Road Waltham, MA 02451		Generator's Site Address (if different than mailing address) 642 Allens Avenue Providence, RI 02905								
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu										
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		U.S. EPA ID Number MAD 039322250								
7. Transporter 2 Company Name		U.S. EPA ID Number								
8. Designated Facility Name and Site Address Clean Harbors Environmental Services, Inc. 2900 Rockefeller Avenue Cleveland, OH 44115		U.S. EPA ID Number OH D000724153								
Facility's Phone: (216) 429-2402										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. NON DOT REGULATED MATERIAL, (PURGEWATER)	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	No.	Type	Ø1	DM	55	G	R015			
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information 1.126781RTR Lx55										
Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience, or safety										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Officer's Printed/Typed Name Jim DREWOLF Narragansett Electric		Signature <i>[Signature]</i>		#1215 Agent For TNEC		Month 11	Day 24	Year 20		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		Port of entry/exit Date leaving U.S.					
	Transporter signature (for exports only): <i>[Signature]</i>									
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name FRANCISCO BRITO Signature <i>[Signature]</i> Month 11 Day 24 Year 20									
	Transporter 2 Printed/Typed Name 		Signature <i>[Signature]</i>		Month 11 Day 24 Year 20					
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity		<input type="checkbox"/> Type		<input type="checkbox"/> Residue		<input type="checkbox"/> Partial Rejection		<input type="checkbox"/> Full Rejection	
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator)		U.S. EPA ID Number							
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)								Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H070		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name JOHN MERTZ		Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Month 12	Day 17	Year 20

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

RI 2006022713-001 PPW



APPENDIX D

LABORATORY REPORTS



CERTIFICATE OF ANALYSIS

Sophia Narkiewicz
GZA GeoEnvironmental, Inc.
188 Valley Street
Providence, RI 02909

RE: 642 Allens Ave (03.0033554.01)
ESS Laboratory Work Order Number: 20K0831

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 6:03 pm, Dec 03, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

SAMPLE RECEIPT

The following samples were received on November 24, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20K0831-01	RCA-31	Ground Water	8260B
20K0831-02	VHB-1	Ground Water	8260B
20K0831-03	RCA-15	Ground Water	8260B
20K0831-04	GZA-309D	Ground Water	8260B
20K0831-05	RCA-36	Ground Water	8260B
20K0831-06	RCA-1	Ground Water	8260B
20K0831-07	VHB-20	Ground Water	8260B
20K0831-08	GZ-319D	Ground Water	8260B
20K0831-09	BD-112320	Ground Water	8260B
20K0831-10	GZ-301D	Ground Water	8260B
20K0831-11	GZ-304D	Ground Water	8260B
20K0831-12	RCA-12R	Ground Water	8260B
20K0831-13	GZ-201	Ground Water	8260B
20K0831-14	Trip Blank	Aqueous	8260B



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-31

Date Sampled: 11/23/20 09:40

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 15:02	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 15:02	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 15:02	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-31

Date Sampled: 11/23/20 09:40

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-31

Date Sampled: 11/23/20 09:40

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-01

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 15:02	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 15:02		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	98 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-1

Date Sampled: 11/23/20 14:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 20:15	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 20:15	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 20:15	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-1

Date Sampled: 11/23/20 14:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Isopropylbenzene	0.0094 (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
n-Propylbenzene	0.0014 (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
sec-Butylbenzene	0.0026 (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-1

Date Sampled: 11/23/20 14:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-02

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 20:15	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 20:15		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	86 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	92 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-15

Date Sampled: 11/23/20 16:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 15:28	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 15:28	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 15:28	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-15

Date Sampled: 11/23/20 16:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-15

Date Sampled: 11/23/20 16:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-03

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 15:28	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 15:28		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	98 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZA-309D

Date Sampled: 11/23/20 15:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-04

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 15:55	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 15:55	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 15:55	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZA-309D

Date Sampled: 11/23/20 15:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-04

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZA-309D

Date Sampled: 11/23/20 15:19

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-04

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 15:55	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 15:55		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	99 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	98 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-36

Date Sampled: 11/23/20 11:43

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-05

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2,4-Trimethylbenzene	0.0101 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 19:23	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 19:23	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 19:23	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Benzene	0.0888 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-36

Date Sampled: 11/23/20 11:43

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-05

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Ethylbenzene	0.0024 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Isopropylbenzene	0.0060 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Naphthalene	0.0031 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
n-Propylbenzene	0.0037 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-36

Date Sampled: 11/23/20 11:43

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-05

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Xylene O	0.0036 (0.0010)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 19:23	D0K0476	DK02534
Xylenes (Total)	0.00359 (0.00200)		8260B		1	11/25/20 19:23		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	95 %		70-130
<i>Surrogate: Toluene-d8</i>	98 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-1

Date Sampled: 11/23/20 16:09

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-06

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 16:21	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 16:21	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 16:21	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-1

Date Sampled: 11/23/20 16:09

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-06

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-1

Date Sampled: 11/23/20 16:09

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-06

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 16:21	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 16:21		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	98 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-20

Date Sampled: 11/23/20 09:10

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-07

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 16:47	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 16:47	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 16:47	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Benzene	0.0167 (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-20

Date Sampled: 11/23/20 09:10

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-07

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: VHB-20

Date Sampled: 11/23/20 09:10

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-07

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 16:47	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 16:47		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	97 %		70-130
<i>Surrogate: Toluene-d8</i>	101 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-319D

Date Sampled: 11/23/20 08:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-08

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 19:49	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 19:49	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 19:49	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Benzene	0.0221 (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-319D

Date Sampled: 11/23/20 08:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-08

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Isopropylbenzene	0.0016 (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Styrene	0.0021 (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-319D

Date Sampled: 11/23/20 08:45

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-08

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 19:49	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 19:49		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	89 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	97 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	92 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: BD-112320

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-09

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 17:13	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 17:13	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 17:13	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: BD-112320

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-09

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: BD-112320

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-09

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 17:13	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 17:13		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	99 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	100 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-301D

Date Sampled: 11/23/20 15:03

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-10

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 17:39	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 17:39	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 17:39	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-301D

Date Sampled: 11/23/20 15:03

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-10

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-301D

Date Sampled: 11/23/20 15:03

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-10

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 17:39	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 17:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	99 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	99 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-304D

Date Sampled: 11/23/20 16:33

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-11

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 18:05	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 18:05	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 18:05	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Benzene	0.0020 (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-304D

Date Sampled: 11/23/20 16:33

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-11

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
cis-1,2-Dichloroethene	0.0024 (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-304D

Date Sampled: 11/23/20 16:33

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-11

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 18:05	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 18:05		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	99 %		70-130
<i>Surrogate: Toluene-d8</i>	103 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-12R

Date Sampled: 11/23/20 15:26

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-12

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 18:31	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 18:31	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 18:31	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-12R

Date Sampled: 11/23/20 15:26

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-12

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
cis-1,2-Dichloroethene	0.0201 (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Tetrachloroethene	0.0016 (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: RCA-12R

Date Sampled: 11/23/20 15:26

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-12

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Trichloroethene	0.0059 (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Vinyl Chloride	0.0014 (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 18:31	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 18:31		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	97 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-201

Date Sampled: 11/23/20 11:57

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-13

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 18:57	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 18:57	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 18:57	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-201

Date Sampled: 11/23/20 11:57

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-13

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Isopropylbenzene	0.0061 (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Naphthalene	0.0016 (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
n-Butylbenzene	0.0026 (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
n-Propylbenzene	0.0034 (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
sec-Butylbenzene	0.0034 (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: GZ-201

Date Sampled: 11/23/20 11:57

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-13

Sample Matrix: Ground Water

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 18:57	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 18:57		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	98 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: Trip Blank

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-14

Sample Matrix: Aqueous

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/25/20 12:52	D0K0476	DK02534
1-Chlorohexane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
2-Butanone	ND (0.0100)		8260B		1	11/25/20 12:52	D0K0476	DK02534
2-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
2-Hexanone	ND (0.0100)		8260B		1	11/25/20 12:52	D0K0476	DK02534
4-Chlorotoluene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Acetone	ND (0.0100)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Benzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Bromobenzene	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: Trip Blank

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-14

Sample Matrix: Aqueous

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Bromodichloromethane	ND (0.0006)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Bromoform	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Bromomethane	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Carbon Disulfide	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Chlorobenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Chloroethane	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Chloroform	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Chloromethane	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Dibromochloromethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Dibromomethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Diethyl Ether	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Di-isopropyl ether	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Ethylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Hexachloroethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Isopropylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Methylene Chloride	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Naphthalene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
n-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
n-Propylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
sec-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Styrene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
tert-Butylbenzene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Tetrachloroethene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

Client Sample ID: Trip Blank

Date Sampled: 11/23/20 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 20K0831

ESS Laboratory Sample ID: 20K0831-14

Sample Matrix: Aqueous

Units: mg/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Toluene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Trichloroethene	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Vinyl Acetate	ND (0.0050)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Vinyl Chloride	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Xylene O	ND (0.0010)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Xylene P,M	ND (0.0020)		8260B		1	11/25/20 12:52	D0K0476	DK02534
Xylenes (Total)	ND (0.00200)		8260B		1	11/25/20 12:52		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	97 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L
1,1,1-Trichloroethane	ND	0.0010	mg/L
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,2-Trichloroethane	ND	0.0010	mg/L
1,1-Dichloroethane	ND	0.0010	mg/L
1,1-Dichloroethene	ND	0.0010	mg/L
1,1-Dichloropropene	ND	0.0020	mg/L
1,2,3-Trichlorobenzene	ND	0.0010	mg/L
1,2,3-Trichloropropane	ND	0.0010	mg/L
1,2,4-Trichlorobenzene	ND	0.0010	mg/L
1,2,4-Trimethylbenzene	ND	0.0010	mg/L
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L
1,2-Dibromoethane	ND	0.0010	mg/L
1,2-Dichlorobenzene	ND	0.0010	mg/L
1,2-Dichloroethane	ND	0.0010	mg/L
1,2-Dichloropropane	ND	0.0010	mg/L
1,3,5-Trimethylbenzene	ND	0.0010	mg/L
1,3-Dichlorobenzene	ND	0.0010	mg/L
1,3-Dichloropropane	ND	0.0010	mg/L
1,4-Dichlorobenzene	ND	0.0010	mg/L
1,4-Dioxane - Screen	ND	0.500	mg/L
1-Chlorohexane	ND	0.0010	mg/L
2,2-Dichloropropane	ND	0.0010	mg/L
2-Butanone	ND	0.0100	mg/L
2-Chlorotoluene	ND	0.0010	mg/L
2-Hexanone	ND	0.0100	mg/L
4-Chlorotoluene	ND	0.0010	mg/L
4-Isopropyltoluene	ND	0.0010	mg/L
4-Methyl-2-Pentanone	ND	0.0250	mg/L
Acetone	ND	0.0100	mg/L
Benzene	ND	0.0010	mg/L
Bromobenzene	ND	0.0020	mg/L
Bromochloromethane	ND	0.0010	mg/L
Bromodichloromethane	ND	0.0006	mg/L
Bromoform	ND	0.0010	mg/L
Bromomethane	ND	0.0020	mg/L
Carbon Disulfide	ND	0.0010	mg/L
Carbon Tetrachloride	ND	0.0010	mg/L
Chlorobenzene	ND	0.0010	mg/L
Chloroethane	ND	0.0020	mg/L
Chloroform	ND	0.0010	mg/L
Chloromethane	ND	0.0020	mg/L
cis-1,2-Dichloroethene	ND	0.0010	mg/L
cis-1,3-Dichloropropene	ND	0.0004	mg/L



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0265		mg/L	0.02500		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0246		mg/L	0.02500		98	70-130			
<i>Surrogate: Dibromofluoromethane</i>	0.0240		mg/L	0.02500		96	70-130			
<i>Surrogate: Toluene-d8</i>	0.0256		mg/L	0.02500		102	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0105	0.0010	mg/L	0.01000		105	70-130			
1,1,1-Trichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,1,2,2-Tetrachloroethane	0.0100	0.0005	mg/L	0.01000		100	70-130			
1,1,2-Trichloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130			
1,1-Dichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,1-Dichloroethene	0.0095	0.0010	mg/L	0.01000		95	70-130			
1,1-Dichloropropene	0.0102	0.0020	mg/L	0.01000		102	70-130			
1,2,3-Trichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,2,3-Trichloropropane	0.0096	0.0010	mg/L	0.01000		96	70-130			
1,2,4-Trichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

1,2,4-Trimethylbenzene	0.0105	0.0010	mg/L	0.01000	105	70-130
1,2-Dibromo-3-Chloropropane	0.0086	0.0050	mg/L	0.01000	86	70-130
1,2-Dibromoethane	0.0102	0.0010	mg/L	0.01000	102	70-130
1,2-Dichlorobenzene	0.0098	0.0010	mg/L	0.01000	98	70-130
1,2-Dichloroethane	0.0104	0.0010	mg/L	0.01000	104	70-130
1,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000	100	70-130
1,3,5-Trimethylbenzene	0.0108	0.0010	mg/L	0.01000	108	70-130
1,3-Dichlorobenzene	0.0098	0.0010	mg/L	0.01000	98	70-130
1,3-Dichloropropane	0.0104	0.0010	mg/L	0.01000	104	70-130
1,4-Dichlorobenzene	0.0097	0.0010	mg/L	0.01000	97	70-130
1,4-Dioxane - Screen	ND	0.500	mg/L	0.2000	0	0-332
1-Chlorohexane	0.0102	0.0010	mg/L	0.01000	102	70-130
2,2-Dichloropropane	0.0107	0.0010	mg/L	0.01000	107	70-130
2-Butanone	0.0506	0.0100	mg/L	0.05000	101	70-130
2-Chlorotoluene	0.0101	0.0010	mg/L	0.01000	101	70-130
2-Hexanone	0.0517	0.0100	mg/L	0.05000	103	70-130
4-Chlorotoluene	0.0101	0.0010	mg/L	0.01000	101	70-130
4-Isopropyltoluene	0.0101	0.0010	mg/L	0.01000	101	70-130
4-Methyl-2-Pentanone	0.0496	0.0250	mg/L	0.05000	99	70-130
Acetone	0.0512	0.0100	mg/L	0.05000	102	70-130
Benzene	0.0103	0.0010	mg/L	0.01000	103	70-130
Bromobenzene	0.0102	0.0020	mg/L	0.01000	102	70-130
Bromochloromethane	0.0099	0.0010	mg/L	0.01000	99	70-130
Bromodichloromethane	0.0103	0.0006	mg/L	0.01000	103	70-130
Bromoform	0.0092	0.0010	mg/L	0.01000	92	70-130
Bromomethane	0.0126	0.0020	mg/L	0.01000	126	70-130
Carbon Disulfide	0.0103	0.0010	mg/L	0.01000	103	70-130
Carbon Tetrachloride	0.0102	0.0010	mg/L	0.01000	102	70-130
Chlorobenzene	0.0100	0.0010	mg/L	0.01000	100	70-130
Chloroethane	0.0096	0.0020	mg/L	0.01000	97	70-130
Chloroform	0.0100	0.0010	mg/L	0.01000	100	70-130
Chloromethane	0.0097	0.0020	mg/L	0.01000	97	70-130
cis-1,2-Dichloroethene	0.0096	0.0010	mg/L	0.01000	96	70-130
cis-1,3-Dichloropropene	0.0094	0.0004	mg/L	0.01000	94	70-130
Dibromochloromethane	0.0089	0.0010	mg/L	0.01000	89	70-130
Dibromomethane	0.0100	0.0010	mg/L	0.01000	100	70-130
Dichlorodifluoromethane	0.0082	0.0020	mg/L	0.01000	82	70-130
Diethyl Ether	0.0108	0.0010	mg/L	0.01000	108	70-130
Di-isopropyl ether	0.0104	0.0010	mg/L	0.01000	104	70-130
Ethyl tertiary-butyl ether	0.0098	0.0010	mg/L	0.01000	98	70-130
Ethylbenzene	0.0106	0.0010	mg/L	0.01000	106	70-130
Hexachlorobutadiene	0.0104	0.0006	mg/L	0.01000	104	70-130
Hexachloroethane	0.0097	0.0010	mg/L	0.01000	97	70-130
Isopropylbenzene	0.0101	0.0010	mg/L	0.01000	101	70-130
Methyl tert-Butyl Ether	0.0107	0.0010	mg/L	0.01000	107	70-130



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

Methylene Chloride	0.0102	0.0020	mg/L	0.01000	102	70-130				
Naphthalene	0.0097	0.0010	mg/L	0.01000	97	70-130				
n-Butylbenzene	0.0105	0.0010	mg/L	0.01000	105	70-130				
n-Propylbenzene	0.0100	0.0010	mg/L	0.01000	100	70-130				
sec-Butylbenzene	0.0099	0.0010	mg/L	0.01000	99	70-130				
Styrene	0.0095	0.0010	mg/L	0.01000	95	70-130				
tert-Butylbenzene	0.0103	0.0010	mg/L	0.01000	103	70-130				
Tertiary-amyl methyl ether	0.0102	0.0010	mg/L	0.01000	102	70-130				
Tetrachloroethene	0.0084	0.0010	mg/L	0.01000	84	70-130				
Tetrahydrofuran	0.0092	0.0050	mg/L	0.01000	92	70-130				
Toluene	0.0105	0.0010	mg/L	0.01000	105	70-130				
trans-1,2-Dichloroethene	0.0094	0.0010	mg/L	0.01000	94	70-130				
trans-1,3-Dichloropropene	0.0086	0.0004	mg/L	0.01000	86	70-130				
Trichloroethene	0.0098	0.0010	mg/L	0.01000	98	70-130				
Trichlorofluoromethane	0.0101	0.0010	mg/L	0.01000	101	70-130				
Vinyl Acetate	0.0096	0.0050	mg/L	0.01000	96	70-130				
Vinyl Chloride	0.0097	0.0010	mg/L	0.01000	97	70-130				
Xylene O	0.0105	0.0010	mg/L	0.01000	105	70-130				
Xylene P,M	0.0219	0.0020	mg/L	0.02000	110	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0262		mg/L	0.02500	105	70-130				
Surrogate: 4-Bromofluorobenzene	0.0256		mg/L	0.02500	102	70-130				
Surrogate: Dibromofluoromethane	0.0253		mg/L	0.02500	101	70-130				
Surrogate: Toluene-d8	0.0253		mg/L	0.02500	101	70-130				

LCS Dup

1,1,1,2-Tetrachloroethane	0.0098	0.0010	mg/L	0.01000	98	70-130	7	25		
1,1,1-Trichloroethane	0.0099	0.0010	mg/L	0.01000	99	70-130	1	25		
1,1,2,2-Tetrachloroethane	0.0099	0.0005	mg/L	0.01000	99	70-130	0.9	25		
1,1,2-Trichloroethane	0.0095	0.0010	mg/L	0.01000	95	70-130	3	25		
1,1-Dichloroethane	0.0099	0.0010	mg/L	0.01000	99	70-130	2	25		
1,1-Dichloroethene	0.0098	0.0010	mg/L	0.01000	98	70-130	2	25		
1,1-Dichloropropene	0.0102	0.0020	mg/L	0.01000	102	70-130	0.1	25		
1,2,3-Trichlorobenzene	0.0103	0.0010	mg/L	0.01000	103	70-130	0.7	25		
1,2,3-Trichloropropane	0.0092	0.0010	mg/L	0.01000	92	70-130	4	25		
1,2,4-Trichlorobenzene	0.0104	0.0010	mg/L	0.01000	104	70-130	1	25		
1,2,4-Trimethylbenzene	0.0105	0.0010	mg/L	0.01000	105	70-130	0.7	25		
1,2-Dibromo-3-Chloropropane	0.0082	0.0050	mg/L	0.01000	82	70-130	4	25		
1,2-Dibromoethane	0.0105	0.0010	mg/L	0.01000	105	70-130	2	25		
1,2-Dichlorobenzene	0.0098	0.0010	mg/L	0.01000	98	70-130	0.1	25		
1,2-Dichloroethane	0.0101	0.0010	mg/L	0.01000	101	70-130	2	25		
1,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000	100	70-130	0.7	25		
1,3,5-Trimethylbenzene	0.0107	0.0010	mg/L	0.01000	107	70-130	0.8	25		
1,3-Dichlorobenzene	0.0098	0.0010	mg/L	0.01000	98	70-130	0.4	25		
1,3-Dichloropropane	0.0104	0.0010	mg/L	0.01000	104	70-130	0.8	25		
1,4-Dichlorobenzene	0.0099	0.0010	mg/L	0.01000	99	70-130	2	25		
1,4-Dioxane - Screen	ND	0.500	mg/L	0.2000	0	0-332	200	200		



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

1-Chlorohexane	0.0100	0.0010	mg/L	0.01000	100	70-130	2	25
2,2-Dichloropropane	0.0106	0.0010	mg/L	0.01000	106	70-130	2	25
2-Butanone	0.0476	0.0100	mg/L	0.05000	95	70-130	6	25
2-Chlorotoluene	0.0101	0.0010	mg/L	0.01000	101	70-130	0.5	25
2-Hexanone	0.0482	0.0100	mg/L	0.05000	96	70-130	7	25
4-Chlorotoluene	0.0100	0.0010	mg/L	0.01000	100	70-130	1	25
4-Isopropyltoluene	0.0103	0.0010	mg/L	0.01000	103	70-130	1	25
4-Methyl-2-Pentanone	0.0474	0.0250	mg/L	0.05000	95	70-130	5	25
Acetone	0.0460	0.0100	mg/L	0.05000	92	70-130	11	25
Benzene	0.0101	0.0010	mg/L	0.01000	101	70-130	2	25
Bromobenzene	0.0102	0.0020	mg/L	0.01000	102	70-130	0.4	25
Bromochloromethane	0.0100	0.0010	mg/L	0.01000	100	70-130	0.7	25
Bromodichloromethane	0.0098	0.0006	mg/L	0.01000	98	70-130	5	25
Bromoform	0.0089	0.0010	mg/L	0.01000	89	70-130	3	25
Bromomethane	0.0117	0.0020	mg/L	0.01000	117	70-130	7	25
Carbon Disulfide	0.0101	0.0010	mg/L	0.01000	101	70-130	2	25
Carbon Tetrachloride	0.0101	0.0010	mg/L	0.01000	101	70-130	0.4	25
Chlorobenzene	0.0098	0.0010	mg/L	0.01000	98	70-130	2	25
Chloroethane	0.0096	0.0020	mg/L	0.01000	96	70-130	0.8	25
Chloroform	0.0101	0.0010	mg/L	0.01000	101	70-130	0.5	25
Chloromethane	0.0095	0.0020	mg/L	0.01000	95	70-130	2	25
cis-1,2-Dichloroethene	0.0094	0.0010	mg/L	0.01000	94	70-130	2	25
cis-1,3-Dichloropropene	0.0093	0.0004	mg/L	0.01000	93	70-130	1	25
Dibromochloromethane	0.0089	0.0010	mg/L	0.01000	89	70-130	0.4	25
Dibromomethane	0.0097	0.0010	mg/L	0.01000	97	70-130	3	25
Dichlorodifluoromethane	0.0080	0.0020	mg/L	0.01000	80	70-130	2	25
Diethyl Ether	0.0103	0.0010	mg/L	0.01000	103	70-130	5	25
Di-isopropyl ether	0.0102	0.0010	mg/L	0.01000	102	70-130	2	25
Ethyl tertiary-butyl ether	0.0097	0.0010	mg/L	0.01000	97	70-130	0.8	25
Ethylbenzene	0.0105	0.0010	mg/L	0.01000	105	70-130	0.6	25
Hexachlorobutadiene	0.0107	0.0006	mg/L	0.01000	107	70-130	3	25
Hexachloroethane	0.0095	0.0010	mg/L	0.01000	95	70-130	3	25
Isopropylbenzene	0.0102	0.0010	mg/L	0.01000	102	70-130	0.9	25
Methyl tert-Butyl Ether	0.0103	0.0010	mg/L	0.01000	103	70-130	3	25
Methylene Chloride	0.0100	0.0020	mg/L	0.01000	100	70-130	2	25
Naphthalene	0.0095	0.0010	mg/L	0.01000	95	70-130	2	25
n-Butylbenzene	0.0106	0.0010	mg/L	0.01000	106	70-130	1	25
n-Propylbenzene	0.0101	0.0010	mg/L	0.01000	101	70-130	0.6	25
sec-Butylbenzene	0.0100	0.0010	mg/L	0.01000	100	70-130	0.8	25
Styrene	0.0094	0.0010	mg/L	0.01000	94	70-130	1	25
tert-Butylbenzene	0.0104	0.0010	mg/L	0.01000	104	70-130	1	25
Tertiary-amyl methyl ether	0.0098	0.0010	mg/L	0.01000	98	70-130	4	25
Tetrachloroethene	0.0084	0.0010	mg/L	0.01000	84	70-130	0	25
Tetrahydrofuran	0.0094	0.0050	mg/L	0.01000	94	70-130	2	25
Toluene	0.0103	0.0010	mg/L	0.01000	103	70-130	2	25



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch DK02534 - 5030B

trans-1,2-Dichloroethene	0.0093	0.0010	mg/L	0.01000	93	70-130	2	25	
trans-1,3-Dichloropropene	0.0084	0.0004	mg/L	0.01000	84	70-130	3	25	
Trichloroethene	0.0099	0.0010	mg/L	0.01000	99	70-130	1	25	
Trichlorofluoromethane	0.0100	0.0010	mg/L	0.01000	100	70-130	1	25	
Vinyl Acetate	0.0093	0.0050	mg/L	0.01000	93	70-130	3	25	
Vinyl Chloride	0.0096	0.0010	mg/L	0.01000	96	70-130	1	25	
Xylene O	0.0104	0.0010	mg/L	0.01000	104	70-130	2	25	
Xylene P,M	0.0218	0.0020	mg/L	0.02000	109	70-130	0.5	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0259</i>		mg/L	<i>0.02500</i>	<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0261</i>		mg/L	<i>0.02500</i>	<i>104</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0254</i>		mg/L	<i>0.02500</i>	<i>102</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0253</i>		mg/L	<i>0.02500</i>	<i>101</i>	<i>70-130</i>			



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.

Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 20K0831

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

ESS Project ID: 20K0831

Shipped/Delivered Via: Client

Date Received: 11/24/2020
 Project Due Date: 12/3/2020
 Days for Project: 5 Day

1. Air bill manifest present? Air No.: <u>NA</u>	<input type="checkbox"/> No	6. Does COC match bottles?	<input type="checkbox"/> Yes
2. Were custody seals present?	<input type="checkbox"/> No	7. Is COC complete and correct?	<input type="checkbox"/> Yes
3. Is radiation count <100 CPM?	<input type="checkbox"/> Yes	8. Were samples received intact?	<input type="checkbox"/> Yes
4. Is a Cooler Present? Temp: <u>4.3</u> Iced with: <u>Ice</u>	<input type="checkbox"/> Yes	9. Were labs informed about <u>short holds & rushes</u> ?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No / <u>NA</u>
5. Was COC signed and dated by client?	<input type="checkbox"/> Yes	10. Were any analyses received outside of hold time?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No

11. Any Subcontracting needed? ESS Sample IDs: Analysis: TAT:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No / <u>NA</u>
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13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen:	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Date: _____	Time: _____	By: _____
		Date: _____	Time: _____	By: _____

Sample Receiving Notes:

14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? _____	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	Date: _____	Time: _____	By: _____
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Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	113105	Yes	No	Yes	VOA Vial	HCl	
1	113106	Yes	No	Yes	VOA Vial	HCl	
1	113107	Yes	No	Yes	VOA Vial	HCl	
2	113108	Yes	No	Yes	VOA Vial	HCl	
2	113109	Yes	No	Yes	VOA Vial	HCl	
2	113110	Yes	No	Yes	VOA Vial	HCl	
3	113111	Yes	No	Yes	VOA Vial	HCl	
3	113112	Yes	No	Yes	VOA Vial	HCl	
3	113113	Yes	No	Yes	VOA Vial	HCl	
4	113114	Yes	No	Yes	VOA Vial	HCl	
4	113115	Yes	No	Yes	VOA Vial	HCl	
4	113116	Yes	No	Yes	VOA Vial	HCl	
5	113117	Yes	No	Yes	VOA Vial	HCl	
5	113118	Yes	No	Yes	VOA Vial	HCl	
5	113119	Yes	No	Yes	VOA Vial	HCl	
6	113120	Yes	No	Yes	VOA Vial	HCl	
6	113121	Yes	No	Yes	VOA Vial	HCl	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>GZA - Providence, RI - GZA/KPB</u>					ESS Project ID: <u>20K0831</u>	
					Date Received:	<u>11/24/2020</u>
6	113122	Yes	No	Yes	VOA Vial	HCI
7	113123	Yes	No	Yes	VOA Vial	HCI
7	113124	Yes	No	Yes	VOA Vial	HCI
7	113125	Yes	No	Yes	VOA Vial	HCI
8	113126	Yes	No	Yes	VOA Vial	HCI
8	113127	Yes	No	Yes	VOA Vial	HCI
8	113128	Yes	No	Yes	VOA Vial	HCI
9	113129	Yes	No	Yes	VOA Vial	HCI
9	113130	Yes	No	Yes	VOA Vial	HCI
9	113131	Yes	No	Yes	VOA Vial	HCI
10	113132	Yes	No	Yes	VOA Vial	HCI
10	113133	Yes	No	Yes	VOA Vial	HCI
10	113134	Yes	No	Yes	VOA Vial	HCI
11	113135	Yes	No	Yes	VOA Vial	HCI
11	113136	Yes	No	Yes	VOA Vial	HCI
11	113137	Yes	No	Yes	VOA Vial	HCI
12	113138	Yes	No	Yes	VOA Vial	HCI
12	113139	Yes	No	Yes	VOA Vial	HCI
12	113140	Yes	No	Yes	VOA Vial	HCI
13	113141	Yes	No	Yes	VOA Vial	HCI
13	113142	Yes	No	Yes	VOA Vial	HCI
13	113143	Yes	No	Yes	VOA Vial	HCI
14	113144	Yes	No	Yes	VOA Vial	HCI

2nd Review

Were all containers scanned into storage/lab?

Initials AG

Are barcode labels on correct containers?

(Yes) No

Are all Flashpoint stickers attached/container ID # circled?

Yes / No / NA

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?

Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed By:	<u>Amber Garcia</u>	Date & Time:	<u>11/24/20 18:36</u>
Reviewed By:	<u>SLT</u>	Date & Time:	<u>11/24/20 1842</u>
Delivered By:	<u>SLT</u>		<u>11/24/20 1842</u>



185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 20K0831

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Turn Time	<input type="checkbox"/> > 5	<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day
Regulatory State:	RI		Criteria:				
Is this project for any of the following?:							
<input type="checkbox"/> CTRCP	<input type="checkbox"/> MA MCP	<input type="checkbox"/> RGP	<input type="checkbox"/> Permit	<input type="checkbox"/> 401 WQ			

CLIENT INFORMATION

Client: GZA
Address: 188 Valley St Suite
350, Providence RI
Phone:
Email Distribution List: Sophia.narkiewicz
@gza.com

PROJECT INFORMATION	
Project Name:	642 Allen Ave
Project Location:	642 Allen Ave
Project Number:	3355401
Project Manager:	Sophia Nurkiewicz
Bill to:	
PO#:	
Quote#:	

Client
acknowledges
that sampling is
compliant with
all EPA / State
regulatory
programs

REQUESTED ANALYSES

ELECTRONIC DELIVERABLES (Final Reports are PDF)

<input checked="" type="checkbox"/> Limit Checker	<input type="checkbox"/> State Forms	<input type="checkbox"/> EQuIS
<input checked="" type="checkbox"/> Excel	<input type="checkbox"/> Hard Copy	<input type="checkbox"/> Enviro Data
<input type="checkbox"/> CT P-1-like Package	<input checked="" type="checkbox"/> Other (Specify) → PDF	

