Proactive by Design

MONITORING REPORT – 2018

642 Allens Avenue
Providence, Rhode Island

January 7, 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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January 7, 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 – 2018
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 2018. 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

James J. Clark, P.E.
Senior Principal

Margaret S. Kilpatrick, P.E.
Associate Principal

Attachment: *Monitoring Report – 2018*

cc: Amy Willoughby, National Grid

TABLES

FIGURES

APPENDICES

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 2018. As described further herein, annual monitoring performed in 2018 consisted of approximately monthly routine shoreline observations, semi-annual groundwater elevation/non-aqueous phase liquid (NAPL) gauging events, and annual groundwater quality sampling events. **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.**

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 – 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:

- 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 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 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. The 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 2018 monitoring program. As indicated previously, this monitoring program consists of monthly shoreline observations, semi-annual NAPL and groundwater elevation monitoring, NAPL recovery (if applicable) and annual groundwater quality sampling and analysis.

2.1 SHORELINE OBSERVATIONS

Between September 2011 and December 2018, the shoreline adjacent to the Site was inspected for the presence of sheens in the Providence River on an approximately at least 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 illustrated 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- or low-tide only and generally consisted of bright spots and bands. Sheens observed at high tide were generally less significant and observed sporadically. A summary of sheen observations proximate to the cove area is presented in **Table 1** - *Summary of Sheen Observations – 2011 to 2018*.

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 March and November 2018. **Figure 4** – *Groundwater Monitoring Wells* presents the location of all monitoring wells at the Site and **Figure 5** – *Shallow Groundwater Contours (March 2018)* presents the shallow groundwater contours at the Site. In addition, periodic NAPL measurements were collected from GZ-307S and CHES-RW-A. GZ-307S is located proximate to the northern property line near the Gas Control Building (refer to **Figure 3A)** and CHES RW-A is located in the northeast portion of the Natural Gas Regulation Facility, in the vicinity of Compressor Building No. 2 (refer to **Figure 3B)**. Historically, NAPL has been observed in GZ-307s and CHES-RW-A. 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 taken 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.

An evaluation of NAPL recoverability was made at a subset of the wells where NAPL was present (GZ-307S and CHES RW-A). A LNAPL/groundwater mixture was recovered from GZ-307S om two occasions during the 2018 monitoring period, refer to **Table 5**. LNAPL was recovered from CHES-RW-A on five occasions during the 2018 monitoring period, refer to **Table 6.** A LNAPL/groundwater mixture was recovered from GZ-307S and CHES RW-A with a peristaltic pump with dedicated tubing positioned directly below the top of the LNAPL surface. The LNAPL was extracted from the well until groundwater was observed within the tubing at which point the pump was deactivated.

While measurable NAPL was not detected, evidence of sheen was observed on purge water from monitoring well GZA-201 during the groundwater sampling events. 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*
- **Table 5** – *LNAPL Gauging and Recovery – GZ-307S*
- **Table 6** – *LNAPL Gauging and Recovery – CHES RW-A*

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. Between November 2001 and November 2018, only fifteen (15) 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) (2001-2018)*. The majority of LNAPL detections were less than 0.40 feet in thickness.

Measurable LNAPL was detected at only two locations in 2018: GZ-307S and CHES RW-A, as presented on **Figure 7 –** *2018 NAPL and Groundwater Analytical Data*.

GZ-307S was installed in 2014 to delineate the extent of LNAPL observed along the northern property line. During 2018, LNAPL was detected in this well at thicknesses ranging from trace to 1.00 foot, refer to **Table 5.** Approximately 1 gallon of a LNAPL/groundwater mixture was recovered from this well utilizing a peristaltic pump during 2018.

CHES RW-A was installed in September 2017 during a facility project where LNAPL was detected in an excavation. During 2018, LNAPL was detected in the well at thicknesses ranging from 0.05 to 1.56 feet, refer to **Table 6**. Approximately 115 gallons of a LNAPL/groundwater mixture was recovered from this well utilizing a peristaltic pump during 2018. A sample of the LNAPL/Groundwater mixture was collected and analyzed for TPH Fingerprint analysis and specific gravity. The laboratory report for this sample is included in Appendix D. The well was decommissioned on November 20, 2018 in advance of gas line installation.[1]

Recovered LNAPL/groundwater was collected and containerized in an appropriately labeled 55-gallon drums or other equivalent container for off-Site disposal. All IDW was transported off-Site by CHES to their facility in Braintree, Massachusetts, or another certified facility. Copies of shipping records for the IDWs are included in **Appendix C -** *Investigation Derived Waste Shipping Records*.

2.2.2 DNAPL Observations

As indicated in **Table 2** and **Table 4**, between November 2001 and November 2018, 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 2018.

[1] As described below in Section 3.0, we currently anticipate reinstalling this recovery well in an adjacent area after facility projects are complete (currently anticipated to be 2022).

2.3 GROUNDWATER FLOW DIRECTION

Comprehensive elevation gauging rounds of the groundwater monitoring well network were performed in March 2018 and November 2018. GZA also surveyed the vertical elevation of the top of the PVC well casing and adjacent ground surface for each new and existing well relative to the North American Vertical Datum of 1988 (NAVD 1988). These depths to groundwater readings and reference elevations 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 March 2018 gauging round were used to prepare the shallow groundwater contours presented on **Figure 5.** As expected, groundwater flow is generally to the east across the Site towards the Providence River.

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 feet 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 2018. In March 2018, groundwater quality samples were collected from twelve (12) monitoring wells: RCA-1, RCA-12R, RCA-15, RCA-22, 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 March 2018 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 was replaced, with new dedicated tubing as indicated on the field sampling logs. 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 pumped until field screening parameters were stabilized prior to collecting the samples.

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 7 –** *Summary of 2018 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 March 2018 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 8** - *Summary of Groundwater QA/QC VOC Analytical Results*.

The following summarizes the groundwater QA/QC samples for the 2018 sampling event:

QA/QC Sample Type	Matrix	Number of Samples	Analysis / Comment
Samples	Groundwater	12	VOCs
Field Duplicates	Groundwater	1	VOCs
Trip Blanks	Groundwater	2	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 the following qualifications:

- For Chloromethane: The Continuing Calibration %Diff/Drift was above the control limit, the Blank Spike recovery was above the upper control limit, and the Blank Spike Duplicate recovery was above the upper control limit. However, chloromethane was not detected in any of the samples, so the higher recovery limit did not affect the results.

- For trans-1,3-Dichloropropene: The Blank Spike Duplicate recovery is below the recovery limit. Trans-1,3-Dichloropropene recovery was within acceptable limits for both the Continuing Calibration sample and the Blank Spike sample. However, trans-1,3-Dichloropropene was not detected in any of Site samples, so the lower recovery limit did not affect the results.

2.6 GROUNDWATER ANALYTICAL RESULTS

Analytical data from the sampling event is summarized in **Table 7 –** *Summary of Groundwater VOC Analytical Results – 2018* and **Figure 7** – *NAPL and Groundwater Analytical Data*. 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 these rounds were consistent with levels detected previously.

Historically, groundwater quality at the Site is generally characterized by a few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene[2], 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. During the 2018 sampling round, only benzene was detected in excess of the GB Groundwater Objective at the Site.

No groundwater samples were collected from the Holcim Cement Facility portion of the Site. In addition, no GB Upper Concentration Limit (UCL) exceedances were detected.

The following sections discuss the dissolved-phased VOC analytical results for the sampling event as compared to the Method 1 (or Method 2 as appropriate) objectives by Site area[3].

2.6.1 CNG Fueling Station

The CNG Fueling Station area is primarily grass with a smaller portion of paved area. The CNG fueling station and active CNG buildings are located in this area. 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 2018 monitoring event, as shown on **Figure 7,** with results presented in **Table 7.**

VOCs were detected in two (2/2) samples collected in the CNG Fueling Station area during the 2018 sampling round (RCA-12R and GZ-301D). The following VOCs were detected: cis-,1,2-dichloroethene, trichloroethene, and vinyl chloride. No VOCs were detected above the GB Groundwater Objectives. The following is a summary of VOCs detected in 2018:

- Cis-1,2-dichlorobenzene was detected in both samples, at concentrations ranging from 0.0012 to 0.0024 mg/L;
- Trichloroethene was detected in the sample collected from RCA-12R at a concentration of 0.0026 mg/L; and
- Vinyl chloride was detected in the sample collected from GZ-301D 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, vinyl chloride, cis-1,2-dichloroethene 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 CHES RW-A). Five (5) monitoring wells (RCA-1, RCA-15, VHB-1, GZ-304D and GZ-309D) were sampled from this area during the March 2018 monitoring event, as shown on **Figure 7,** with results presented in **Table 7.**

VOCs were detected in four (4/5) samples collected in the Natural Gas Regulation Area during the 2018 sampling round (RCA-1, RCA-15, VHB-1 and GZ-304D). The following VOCs were detected: benzene, cis-1,2-dichloroethene, isopropylbenzene,

[2] As noted in the following sections, 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.

[3] Note that there are no active monitoring wells located within the Holcim Cement Facility.

naphthalene, n-propylbenzene, sec-butylbenzene, and vinyl chloride. Vinyl chloride was detected in the sample collected from RCA-1 at a concentration that exceeds the Method 1/2 GB Groundwater Objective of 0.002 mg/L. The following is a summary of VOCs detected in 2018:

- Benzene was detected in the sample collected from RCA-1 at a concentration of 0.0028 mg/L;
- Cis-1,2-dichloroethene was detected in the sample collected from RCA-1 at a concentration of 0.001 mg/L;
- Isopropylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.0061 mg/L;
- Naphthalene was detected in the samples collected from three (3) monitoring wells (RCA-1, RCA-15, and GZ-304D) at concentrations ranging from 0.0023 to 0.0141 mg/L;
- N-propylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.002 mg/L;
- Sec-butylbenzene was detected in the sample collected from VHB-1 at a concentration of 0.0021 mg/L; and
- Vinyl chloride was detected in the sample collected from RCA-1 at a concentration of 0.0028 mg/L, in excess of the Method 1/2 GB Groundwater Objective of 0.002 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 of the Site 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. As noted, vinyl chloride was detected in excess of the Method 1/2 GB Groundwater Objective in RCA-1. This monitoring well is located proximate to Allens Avenue and the property line and groundwater contours (**Figure 5**) indicate that groundwater flow originates upgradient. Additionally, vinyl chloride and cis-1,2-dichloroethene are not compounds typically associated with former MGP operations. Therefore, these chlorinated VOC detections are likely due to upgradient sources.

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. Fifteen (15) wells are located in this area (RCA-6, RCA-22, RCA-28, RCA-31, RCA-34, RCA-36, RCA-39, 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-22, RCA-36, VHB-20, GZ-201 and GZ-319D) were sampled from this area during the March 2018 monitoring event, as shown on **Figure 7,** with results presented in **Table 7.**

VOCs were detected in four (4/5) samples collected in the Natural Gas Regulation Area during the 2018 sampling round (RCA-22, 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, toluene and total xylenes. Benzene was detected in the sample collected from RCA-22 at a concentration that exceeds the Method 1/2 GB Groundwater Objective of 0.014 mg/L. The following is a summary of VOCs detected in 2018:

- 1,2,4-Trimethylbenzene was detected in samples collected from three (3) monitoring wells (RCA-22, RCA-36 and GZ-201) at concentrations ranging from 0.0017 to 0.0059 mg/L;
- Benzene was detected in samples collected from three (3) monitoring wells (RCA-22, RCA-36 and GZ-319D) at concentrations ranging from 0.0359 to 1.08 mg/L, with the sample collected from RCA-22 detected in excess of the Method 1/2 GB Groundwater Objective of 0.014 mg/L;
- Ethylbenzene was detected in samples collected from two (2) monitoring wells (RCA-22 and RCA-36) at concentrations ranging from 0.0046 to 0.0458 mg/L;
- Isopropylbenzene was detected in samples collected from four (4) monitoring wells (RCA-22, RCA-36, GZ-201 and GZ-319D) at concentrations ranging from 0.0017 to 0.0427 mg/L;
- Naphthalene was detected in samples collected from four (4) monitoring wells (RCA-22, RCA-36, GZ-201 and GZ-319D) at concentrations ranging from 0.0013 to 0.418 mg/L;
- N-butylbenzene was detected in samples collected from two (2) monitoring wells (RCA-22 and GZ-201) at concentrations ranging from 0.0034 to 0.044 mg/L;

- N-propylbenzene was detected in samples collected from three (3) monitoring wells (RCA-22, RCA-36 and GZ-201) at concentrations ranging from 0.0014 to 0.0129 mg/L;
- Sec-butylbenzene was detected in samples collected from two (2) monitoring wells (RCA-22 and GZ-201) at concentrations ranging from 0.0025 to 0.0041 mg/L;
- Toluene was detected in the sample collected from RCA-22 at a concentration of 0.0012 mg/L; and
- Total xylenes were detected in samples collected from two (2) monitoring wells (RCA-22 and RCA-36) at concentrations ranging from 0.0023 to 0.0194 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 NAPL and groundwater generated during monitoring activities performed in 2018 were placed into 55-gallon drums for subsequent off-Site disposal. The resulting drums were labeled and temporarily stored on-Site. All IDWs 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 2018, twelve (12) monitoring wells were sampled in March 2018 for VOCs; all accessible wells were gauged to determine the groundwater elevation and presence of NAPL on an approximate semi-annual basis; NAPL recovery was performed at certain well locations; and shoreline observations were made on an approximately monthly basis throughout each 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 area of the shoreline and were observed at various tidal stages.

- NAPL Observations:

    - Measurable NAPL was limited to two (2) monitoring well locations in 2018 (GZ-307S and CHES RW-A). LNAPL thicknesses was observed to range between 0.01 to and 1.56 feet at these monitoring locations and approximately 1 and 114 gallons of a LNAPL/groundwater mixture was recovered from GZ-307S and CHES RW-A, respectively. As described above, CHES RW-A was installed in 2017 and contained significant LNAPL. LNAPL was recovered from the well using a peristaltic pump.

    - Observations of both LNAPL continue to be very localized and do not indicate the presence of significant contiguous source layers in the subsurface. Typical of MGP sites, recovery attempts suggest that observed NAPLs are unlikely to be significantly mobile 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.

- Exceedances of the Method 1/2 GB Groundwater Objectives were limited to two (2/12) monitoring well sampled during the 2018 monitoring round (RCA-1 and RCA-22). Compounds detected in excess of the GB Groundwater Objectives were limited to benzene and vinyl chloride.

- Vinyl chloride detections and/or exceedances were limited to wells located proximate to Allens Avenue and the property line. These vinyl chloride detections are likely due to upgradient sources.

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.	
	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	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	Moderate long bright bands of sheen
12/20/2012	12:00	Mid-High	No sheens observed.	

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
1/4/2013	No sheen observed at high tide.			
2/1/2013	No sheens observed at high tide. High wind was also noted.			
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	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
10/30/2014	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.			
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.			
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.			
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
3/16/2016	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.			
7/26/2016	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		

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
1/31/2017	No sheens observed at mid tide			
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			
6/30/2017	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
10/24/2017	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		
4/26/2018	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	Within Boom near former well CHES RW-3	Some streaks of sheen, dull to bright plates
8/30/2018	9:30	Mid-high	Within Boom near former well CHES RW-4	Dull streaks of sheen
10/1/2018	7:00	Low	Within Boom near former well CHES RW-5	Bright streaks of sheen
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. This table shows observations that were made along the Site shoreline. Observations were made least monthly.
2. Observations made on 9/22/2011 were made before containment boom was repaired. Boom was repaired on 10/28/2011.
3. Boom was repaired and the absorbent sausage boom was replaced on 8/2/2012.
4. Boom was repaired and sections of the absorbent sausage boom was replaced on 11/20/12.
5. Boom was repaired and sections of the absorbent sausage boom was replaced on 2/12/2013.
6. 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.
7. Boom was repaired and sections of the absorbent sausage boom was replaced on 10/4/2013.
8. Absorbent boom replaced 3/20/14
9. Absorbent boom replaced 11/13/14
10. Hard Boom and absorbent boom was replaced on 4/9/15
11. Absorbent boom replaced 11/17/15
12. Absorbent boom replaced 3/3/16.
13. Absorbent boom replaced 7/13/16
14. Absorbent boom replaced 2/23/17.
15. Absorbent boom replaced 6/7/17.
16. Absorbent boom replaced 10/6/17.
17. Boom was damaged during a storm in 2018. Absorbent boom replaced 4/12/18.
18. Absorbent boom replaced 10/25/18.

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)	December 2009								June 2010							
		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	-	5.72	-	14.73	6.10	NP	NP	6.10	-	6.67	-	15.39	5.15	NP	NP	5.15
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	8.01	-	17.5	3.43	NP	NP	3.43	-	9.45	-	17.41	1.99	NP	NP	1.99
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	-	4.63	-	14.50	6.98	NP	NP	6.98	-	6.51	-	14.52	5.10	NP	NP	5.10
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																
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP																
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	6.03	-	11.6	6.90	NP	NP	6.90								
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	8.02	-	14.78	5.71	NP	NP	5.71	-	9.06	-	14.85	4.67	NP	NP	4.67
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP									-	11.62	-	17.04	7.48	NP	NP	7.48
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	6.13	-	14.7	9.22	NP	NP	9.22	-	6.37	-	15.0	8.98	NP	NP	8.98
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	trace	7.18	-	16.51	6.47	trace	NP	6.47	-	8.61	-	16.53	5.04	NP	NP	5.04
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																
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP									-	4.52	-	11.19	9.54	NP	NP	9.54
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	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

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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)	December 2009								June 2010							
		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																
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																
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																
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																
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																
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP																
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP																
LNG	ESS RW-2	NS	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																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																

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642 Allens Avenue
Providence, Rhode Island

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		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									-	6.45	-	15.4	5.37	NP	NP	5.37
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.95	trace	17.65	1.49	NP	trace	1.49	-	8.51	trace	17.75	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									-	6.72	-	14.95	6.32	NP	NP	6.32
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	-	6.84	-	15.00	4.77	NP	NP	4.77	-	6.27	-	14.95	5.34	NP	NP	5.34
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP									-	8.4	-	15.28	4.35	NP	NP	4.35
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP									-	8.11	-	17.95	5.95	NP	NP	5.95
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP									-	7.33	-	14.75	6.11	NP	NP	6.11
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP									-	4.54	-	10.9	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									-	5.42	-	9.15	6.54	NP	NP	6.54
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.18	-	14	4.75	NP	NP	4.75	-	7.74	-	13.95	5.19	NP	NP	5.19
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.75	-	14.9	3.98	NP	NP	3.98	-	8.89	-	14.85	4.84	NP	NP	4.84
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	trace	12.35	-	17.04	6.75	trace	NP	6.75	trace	11.7	-	17.04	7.40	trace	NP	7.40
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP									-	8.93	-	16.92	6.42	NP	NP	6.42
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	-	9.05	-	16.55	4.60	NP	NP	4.60	-	8.51	-	16.55	5.14	NP	NP	5.14
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP									8.54	8.55	-	17.67	4.47	0.01	NP	4.48
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP									7.88	7.89	-	17.25	4.91	0.01	NP	4.91
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP									-	6.57	-	10.42	6.37	NP	NP	6.37
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP									-	9.85	-	16.24	4.42	NP	NP	4.42
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									-	4.68	-	9.52	4.99	NP	NP	4.99
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP									-	5.21	-	11.5	8.85	NP	NP	8.85
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	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

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LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP									-	10.04	-	13.33	2.23	NP	NP	2.23
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP									-	10.22	-	17.2	0.44	NP	NP	0.44
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP									-	8.16	-	10.95	4.79	NP	NP	4.79
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP									10.07	13.65	-	13.75	0.07	3.58	NP	3.11
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.92	-	13.05	3.00	NP	NP	3.00	-	9.08	-	13	3.84	NP	NP	3.84
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.45	-	17.65	2.93	NP	NP	2.93	-	11.65	-	17.65	3.73	NP	NP	3.73
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP									10.87	10.95	-	14.79	2.50	0.08	NP	2.57
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									-	8.69	-	15.98	3.47	NP	NP	3.47
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP									-	7.44	-	13.12	2.23	NP	NP	2.23
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP									-	9.29	-	13.55	5.80	NP	NP	5.80
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP									-	10.49	-	14.05	0.02	NP	NP	0.02
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP									-	7.86	-	16.8	1.50	NP	NP	1.50
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP									-	8.81	-	14.6	5.05	NP	NP	5.05
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP									-	10.01	-	16.75	2.23	NP	NP	2.23
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									-	8.57	-	17	6.41	NP	NP	6.41
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP									-	11.35	-	17.9	2.95	NP	NP	2.95
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP									10.92	10.94	-	12.35	2.14	0.02	NP	2.16
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP									-	11.6	-	13.8	2.72	NP	NP	2.72
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP									-	5.11	-	8.46	NS	NP	NP	NS
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP									-	7.62	-	11.07	NS	NP	NP	NS
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP									-	12.76	-	16.8	3.27	NP	NP	3.27
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP									-	12.53	-	14.95	3.25	NP	NP	3.25
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP									-	12.82	-	17	3.32	NP	NP	3.32
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP									-	14.27	-	17.09	3.25	NP	NP	3.25
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									-	8.75	-	17.3	4.08	NP	NP	4.08
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP									-	6.61	-	17.75	5.00	NP	NP	5.00
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																

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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)	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	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

Notes

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Elevations are relative to NAVD88
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NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
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Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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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									-	9.62	-	20.04	-0.09	NP	NP	-0.09
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	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	7.65	-	17.75	3.96	NP	NP	3.96	-	6.88	-	17.65	4.73	NP	NP	4.73
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																

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Providence, Rhode Island

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		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	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

Notes

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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 exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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	NP	NP	3.21
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	7.72	-	17.68	3.89	NP	NP	3.89	-	7.22	-	17.65	4.39	NP	NP	4.39
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																

Notes

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Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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 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									-	9.82	-	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									-	6.59	-	14.9	4.90	NP	NP	4.90
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP									-	4.73	-	14.15	5.45	NP	NP	5.45
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP									-	1.79	-	11.58	7.17	NP	NP	7.17
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP									-	4.44	-	29.9	5.39	NP	NP	5.39
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP									-	7.07	-	32.7	5.75	NP	NP	5.75
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP									-	5.82	-	15.12	4.76	NP	NP	4.76
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP									-	5.07	-	32.75	5.72	NP	NP	5.72
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP									-	8.17	-	38.2	3.47	NP	NP	3.47
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP									-	9.12	-	36.5	4.36	NP	NP	4.36
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP									-	11.8	-	33.1	7.14	NP	NP	7.14
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

Notes

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Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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 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	-	10.77	-	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
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	8.67	-	17.65	2.94	NP	NP	2.94	-	7.19	-	17.72	4.42	NP	NP	4.42
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP									-	11.91	-	21.94	2.28	NP	NP	2.28
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP									-	11.83	-	37.00	2.28	NP	NP	2.28
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP									-	11.13	-	33.05	1.80	NP	NP	1.80
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP									-	9.86	-	32.23	5.04	NP	NP	5.04

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642 Allens Avenue
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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	-	13.98	5.33	NP	NP	5.33
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.58	-	11.41	6.38	NP	NP	6.38	-	2.46	-	11.36	6.50	NP	NP	6.50
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	4.11	-	29.9	5.72	NP	NP	5.72	-	4.02	-	29.9	5.81	NP	NP	5.81
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	-	7.59	-	32.68	5.23	NP	NP	5.23	-	7.58	-	32.56	5.24	NP	NP	5.24
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	-	6.13	-	15	4.45	NP	NP	4.45	-	6.1	-	14.99	4.48	NP	NP	4.48
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	-	6.25	-	32.6	4.54	NP	NP	4.54	-	6.6	-	32.6	4.19	NP	NP	4.19
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	-	8.57	-	38.11	3.07	NP	NP	3.07	-	10.16	-	38.05	1.48	NP	NP	1.48
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	-	9.2	-	36.42	4.28	NP	NP	4.28	-	9.64	-	36.4	3.84	NP	NP	3.84
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	-	12.06	-	33.15	6.88	NP	NP	6.88	-	12.38	-	33.7	6.56	NP	NP	6.56
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

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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)
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	-	17.7	3.32	NP	NP	3.32
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	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP																
LNG	ESS RW-2	NS	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
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	-	12.18	-	37.00	1.93	NP	NP	1.93	-	12.48	-	36.95	1.63	NP	NP	1.63
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	-	11.26	-	32.90	1.67	NP	NP	1.67	-	11.36	-	32.93	1.57	NP	NP	1.57
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	9.91	-	32.20	4.99	NP	NP	4.99	-	10.15	-	32.25	4.75	NP	NP	4.75

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 exhibiting LNAPL include 0.85 correction factor.

Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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 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)			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	-	10.52	-	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							
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	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	6.94	-	14.14	4.70	NP	NP	4.70	-	6.31	-	14.31	5.33	NP	NP	5.33
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.73	-	14.77	4.76	NP	NP	4.76	-	6.05	-	14.83	5.44	NP	NP	5.44
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	-	5.09	-	14	5.09	NP	NP	5.09	-	3.84	-	14.04	6.34	NP	NP	6.34
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.5	-	11.5	6.46	NP	NP	6.46	-	1.23	-	11.4	7.73	NP	NP	7.73
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	4.53	-	29.9	5.30	NP	NP	5.30	-	3.59	-	29.9	6.24	NP	NP	6.24
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	-	7.47	-	32.55	5.35	NP	NP	5.35	-	6.52	-	32.58	6.30	NP	NP	6.30
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	-	6	-	14.9	4.58	NP	NP	4.58	-	5.87	-	14.44	4.71	NP	NP	4.71
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	-	6.54	-	32.7	4.25	NP	NP	4.25	-	6.19	-	32.79	4.60	NP	NP	4.60
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	-	8.71	-	38.2	2.93	NP	NP	2.93	-	8.83	-	38.15	2.81	NP	NP	2.81
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	-	9.53	-	36.35	3.95	NP	NP	3.95	-	9.09	-	36.5	4.39	NP	NP	4.39
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	-	12.51	-	33.15	6.43	NP	NP	6.43	-	11.34	-	33.13	7.60	NP	NP	7.60
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

Notes

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Well is located at the LNG Facility
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Elevations are relative to NAVD88
NP - Indicates No Product observed.
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Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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 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)			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	-	10.67	-	17.42	1.60	NP	NP	1.60	-	10.76	-	17.28	1.51	NP	NP	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	NP	NP	-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	NP	NP	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	NP	NP	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	NP	NP	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																
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	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	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									-	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	0.29
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.52	-	17.49	3.31	NP	NP	3.31	-	8.54	-	17.3	4.29	NP	NP	4.29
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	8.05	-	17.62	3.56	NP	NP	3.56	-	6.43	-	17.7	5.18	NP	NP	5.18
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	10.67	10.68	-	14	3.50	0.01	NP	3.51	trace	9.64	-	13.9	4.54	trace	NP	4.54
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	-	12.54	-	21.76	1.65	NP	NP	1.65	-	12.3	-	21.75	1.89	NP	NP	1.89
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	-	12.43	-	36.93	1.68	NP	NP	1.68	-	12.2	-	37.00	1.91	NP	NP	1.91
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	-	11.39	-	33.07	1.54	NP	NP	1.54	-	11.46	-	32.90	1.47	NP	NP	1.47
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	10.38	-	32.30	4.52	NP	NP	4.52	-	9.58	-	32.20	5.32	NP	NP	5.32

Notes

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Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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	Decomissioned October 2015								Decomissioned 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	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	7.13	-	14.32	4.51	NP	NP	4.51	-	6.45	-	14.12	5.19	NP	NP	5.19
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.96	-	14.96	4.53	NP	NP	4.53	-	6.05	-	14.75	5.44	NP	NP	5.44
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	-	5.24	-	14.22	4.94	NP	NP	4.94	4.47	4.55	-	14	5.63	0.08	NP	5.70
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.78	-	11.76	6.18	NP	NP	6.18	-	2.2	-	11.38	6.76	NP	NP	6.76
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	4.58	-	30	5.25	NP	NP	5.25	-	4.05	-	29.8	5.78	NP	NP	5.78
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	-	7.99	-	32.7	4.83	NP	NP	4.83	-	7.45	-	32.6	5.37	NP	NP	5.37
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	-	6.29	-	14.25	4.29	NP	NP	4.29	-	5.93	-	14	4.65	NP	NP	4.65
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	-	6.68	-	32.63	4.11	NP	NP	4.11	-	6.75	-	32.25	4.04	NP	NP	4.04
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	-	9.33	-	38.15	2.31	NP	NP	2.31	-	9.65	-	38.1	1.99	NP	NP	1.99
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	-	9.64	-	36.42	3.84	NP	NP	3.84	-	9.46	-	36.28	4.02	NP	NP	4.02
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	-	12.8	-	33.3	6.14	NP	NP	6.14	-	12.17	-	33.07	6.77	NP	NP	6.77
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	-	8.71	-	16.25	6.21	NP	NP	6.21	-	8.22	-	15.81	6.70	NP	NP	6.70
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	-	7.43	-	14.65	6.86	NP	NP	6.86	-	7.3	-	14.42	6.99	NP	NP	6.99
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

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		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	-	10.65	-	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	NP	-	7.8	-	20.28	1.73	NP	NP	1.73	-	8.80	-	20.00	0.73	NP	NP	0.73
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.85	-	17.45	2.98	NP	NP	2.98	-	9.30	-	18.65	3.53	NP	NP	3.53
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	8.48	-	17.73	3.13	NP	NP	3.13	-	7.41	-	18.59	4.20	NP	NP	4.20
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	trace	11.14	-	14.14	3.04	trace	NP	3.04	trace	10.21	-	13.9	3.97	trace	NP	3.97
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	-	12.52	-	21.89	1.67	NP	NP	1.67	-	11.98	-	21.75	2.21	NP	NP	2.21
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	-	12.47	-	37.00	1.64	NP	NP	1.64	-	11.92	-	36.85	2.19	NP	NP	2.19
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	-	11.32	-	32.93	1.61	NP	NP	1.61	-	11.45	-	32.8	1.48	NP	NP	1.48
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	10.32	-	32.27	4.58	NP	NP	4.58	-	10.05	-	32.15	4.85	NP	NP	4.85

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 exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.54	-	14.5	6.79	NP	NP	6.79	-	9.11	-	14.43	8.22	NP	NP	8.22
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.55	-	29.8	6.78	NP	NP	6.78	-	9.21	-	29.64	8.12	NP	NP	8.12
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	10.07	-	14.52	6.60	NP	NP	6.60	-	9.06	-	14.53	7.61	NP	NP	7.61
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	10	-	29.48	6.59	NP	NP	6.59	-	9.06	-	29.32	7.53	NP	NP	7.53
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.57	-	15.4	5.25	NP	NP	5.25	-	5.97	-	15.42	5.85	NP	NP	5.85
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	Decomissioned October 2015								Decomissioned 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	-	8.3	-	17.95	5.76	NP	NP	5.76	-	7.58	-	17.83	6.48	NP	NP	6.48
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.15	-	14.73	6.29	NP	NP	6.29	-	6.81	-	14.70	6.63	NP	NP	6.63
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	5.01	-	11.35	5.32	NP	NP	5.32	Unable to open							
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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	7	-	14.9	6.28	NP	NP	6.28	-	6.13	-	14.9	7.15	NP	NP	7.15
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	6.72	-	29.74	6.41	NP	NP	6.41	-	5.91	-	29.71	7.22	NP	NP	7.22
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	6.52	-	29.57	5.43	NP	NP	5.43	-	7.60	-	29.50	4.35	NP	NP	4.35
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	6.88	-	14.15	4.76	NP	NP	4.76	-	5.80	-	14.1	5.84	NP	NP	5.84
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.66	-	14.72	4.83	NP	NP	4.83	-	5.61	-	14.65	5.88	NP	NP	5.88
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	5.05	5.1	-	14	5.08	0.05	NP	5.12	3.67	3.69	-	13.97	6.49	0.02	NP	6.51
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.62	-	11.45	6.34	NP	NP	6.34	-	1.20	-	11.36	7.76	NP	NP	7.76
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	Unable to open								-	3.64	-	11.25	6.19	NP	NP	6.19
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																

Notes

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Well is located at the LNG Facility

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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 exhibiting LNAPL include 0.85 correction factor.

Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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)
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									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	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.26	-	15.04	2.52	NP	NP	2.52	-	12.22	-	15.17	3.56	NP	NP	3.56
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.52	-	17	2.62	NP	NP	2.62	-	12.45	-	17.00	3.69	NP	NP	3.69
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.92	-	17.06	2.60	NP	NP	2.60	-	13.96	-	18.50	3.56	NP	NP	3.56
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-	9.79	-	20.15	3.31	NP	NP	3.31	-	9.08	-	20.07	4.02	NP	NP	4.02
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	7.95	-	20.12	1.58	NP	NP	1.58	-	9.50	-	20.24	0.03	NP	NP	0.03
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	10.4	-	32.92	4.50	NP	NP	4.50	-	9.25	-	32.40	5.65	NP	NP	5.65

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 exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	8.88	-	14.45	8.45	NP	NP	8.45	-	8.01	-	14.43	9.32	NP	NP	9.32
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	8.99	-	29.80	8.34	NP	NP	8.34	-	8.19	-	29.59	9.14	NP	NP	9.14
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	8.90	-	14.77	7.77	NP	NP	7.77	-	7.98	-	14.55	8.69	NP	NP	8.69
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	8.84	-	29.79	7.75	NP	NP	7.75	-	7.95	-	29.37	8.64	NP	NP	8.64
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	5.15	-	14.91	6.67	NP	NP	6.67	-	4.52	-	15.41	7.30	NP	NP	7.30
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	Decomissioned October 2015								Decomissioned 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	-	7.53	-	18.16	6.53	NP	NP	6.53	-	6.96	-	17.92	7.10	NP	NP	7.10
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	6.60	-	14.81	6.84	NP	NP	6.84	-	5.54	-	17.76	7.90	NP	NP	7.90
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	2.91	-	29.70	7.42	NP	NP	7.42	-	3.05	-	29.87	7.28	NP	NP	7.28
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	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	6.36	7.25	-	9.55	-	0.89	-	-	5.48	5.78	-	9.51	-	0.30	-	-
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							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	5.95	-	14.86	7.33	NP	NP	7.33	-	5.16	-	14.90	8.12	NP	NP	8.12
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	5.60	-	29.95	7.53	NP	NP	7.53	-	4.88	-	29.62	8.25	NP	NP	8.25
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	5.35	-	29.80	6.60	NP	NP	6.60	-	4.65	-	29.52	7.30	NP	NP	7.30
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	5.41	-	14.15	6.23	NP	NP	6.23	-	4.79	-	14.11	6.85	NP	NP	6.85
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	5.25	-	14.70	6.24	NP	NP	6.24	-	4.57	-	14.75	6.92	NP	NP	6.92
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	3.23	3.59	-	14.02	6.59	0.36	NP	6.90	2.55	2.55	-	13.96	7.63	trace	NP	7.63
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	Unable to locate well under snow cover								-	0.90	-	11.05	8.06	NP	NP	8.06
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	3.21	-	30	6.62	NP	NP	6.62	-	2.88	-	29.87	6.95	NP	NP	6.95
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP	Monitoring well found in Summer 2019								Monitoring well found in Summer 2019							

Notes

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NP - Indicates No Product observed.

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Blanks indicate no measurement collected on that particular day.

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Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

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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)
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	-	15.48	3.65	NP	NP	3.65	-	11.67	-	15.04	4.11	NP	NP	4.11
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	12.35	-	17.80	3.79	NP	NP	3.79	-	11.85	-	16.70	4.29	NP	NP	4.29
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	13.75	-	18.33	3.77	NP	NP	3.77	-	13.31	-	16.99	4.21	NP	NP	4.21
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-	9.00	-	20.00	4.10	NP	NP	4.10	-	8.36	-	20.12	4.74	NP	NP	4.74
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	7.75	-	20.80	1.78	NP	NP	1.78	-	10.30	-	20.78	-0.77	NP	NP	-0.77
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	9.69	-	32.40	5.21	NP	NP	5.21	-	8.71	-	32.29	6.19	NP	NP	6.19

Notes

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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 2005	March 2006
Natural Gas Regulation Facility															
RCA-11	trace	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG
RCA-15	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG
VHB-1	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
VHB-2	NI	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	NG
VHB-3	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
VHB-6	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG
VHB-7	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG
VHB-9	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND	NG
VHB-10	NI	trace	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
VHB-18	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	ND	ND
VHB-21	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	trace	NG
VHB-22	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	0.03	0.58
VHB-23	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	ND	0.05
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
CHES RW-2	NI	NI	NI	ND	ND	ND	ND	ND	ND	NG	ND	ND	NG	ND	NG
CHESRW-A	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
LNG Facility															
RCA-4	0.17	NG	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
RCA-6	trace	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
RCA-21	NG	NG	ND	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
RCA-28	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
RCA-29	0.33	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.15	trace	ND
RCA-36	ND	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	NG
RCA-39	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	NG
RCA-40	0.25	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace	0.1
CHES RW-3	NI	NI	NI	ND	ND	ND	ND	ND	ND	NG	ND	ND	NG	ND	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
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
ESS RW-1	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG
ESS RW-2	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	NG
ESS RW-4	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	0.5	NG
RW-1	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 CNG Fueling Station portion of the Property
NG - Not Gauged
RCA-21 was destroyed in late June 2014 and replaced with RW-1

Gray shading indicates NAPL 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

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

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

Date	June 2006	July 2006	October 2006	December 2006	March 2008	December 2009	June 2010	January 2011	July 2011	August 2011	February 2012	July 2012	February 2013	November 2013
Natural Gas Regulation														
RCA-11	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
RCA-15	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
VHB-1	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
VHB-2	NG	NG	NG	NG	NG	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-3	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	ND	ND	ND	ND
VHB-6	NG	NG	NG	NG	ND	ND	NG	ND	ND	ND	ND	ND	ND	ND
VHB-7	NG	NG	NG	NG	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-9	NG	NG	NG	NG	ND	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-10	NG	NG	NG	NG	trace	NG	ND	trace	trace	0.01	trace	0.02	ND	0.01
VHB-18	ND	ND	ND	NG	ND	ND	ND	NG	ND	ND	ND	ND	ND	ND
VHB-21	NG	NG	NG	NG	trace	trace	ND	ND	ND	ND	ND	0.01	0.01	trace
VHB-22	0.69	NG	0.33	0.46	0.4	NG	NG	NG	0.01	ND	trace	0.04	ND	0.01
VHB-23	ND	ND	ND	ND	0.01	NG	NG	NG	0.01	0.05	trace	ND	0.01	ND
CHES RW-1	ND	ND	0.02	ND	trace	NG	NG	NG	ND	ND	ND	ND	ND	ND
CHES RW-2	NG	NG	NG	NG	trace	NG	NG	NG	ND	ND	trace	ND	trace	ND
CHESRW-A	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
LNG Facility														
RCA-4	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
RCA-6	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
RCA-21	NG	NG	NG	NG	NG	NG	NG	NG	3.58	2.94	2.79	1.65	1.44	1.91
RCA-22	NG	NG	NG	NG	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND
RCA-28	NG	NG	NG	NG	trace	NG	NG	ND	ND	ND	ND	ND	ND	ND
RCA-29	0.36	0.15	0.11	0.15	0.3	NG	NG	NG	0.08	trace	trace	0.11	trace	ND
RCA-36	NG	NG	NG	NG	ND	NG	NG	NG	ND	ND	ND	ND	ND	ND
RCA-39	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
RCA-40	0.21	0.18	0.22	0.01	0.01	NG	NG	NG	ND	ND	trace	trace	trace	ND
CHES RW-3	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
CHES RW-4	0.18	0.13	0.1	0.08	0.09	NG	NG	NG	0.02	0.03	0.01	trace	trace	0.01
CHES RW-5	ND	ND	0.01	ND	trace	NG	NG	NG	ND	ND	ND	ND	ND	ND
ESS RW-1	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
ESS RW-2	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
ESS RW-4	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND	ND
RW-1	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 CNG Fueling Station portion of the Property
NG - Not Gauged
RCA-21 was destroyed in late June 2014 and replaced with RW-1

Gray shading indicates NAPL 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

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

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

Date	June 2014	July 2, 2014	July 23, 2014	October 2014	April 2015	October 2015	May 2016	October 2016	May 2017	March 2018	November 2018
Natural Gas Regulation											
RCA-11	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
RCA-15	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
VHB-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-2	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-3	ND	ND	ND	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-6	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-7	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-9	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-10	trace	trace	ND	ND	ND	trace	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-18	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-21	ND	trace	0.08	ND	0.01	trace	0.01	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-22	trace	NG	NG	0.04	0.01	0..03	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
VHB-23	0.03	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHES RW-1	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHES RW-2	ND	NG	NG	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.89	0.3
GZ-307S	ND	ND	ND	ND	ND	ND	0.08	0.05	0.02	0.36	trace
LNG Facility											
RCA-4	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	ND	ND	ND	ND	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
RCA-6	NG	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
RCA-21	0.91	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-22	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
RCA-28	ND	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-29	0.17	NG	NG	0.08	0.02	0.10	0.01	Decomissioned	Decomissioned	Decomissioned	Decomissioned
RCA-36	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
RCA-39	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
RCA-40	ND	NG	NG	ND	0.04	trace	0.02	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHES RW-3	ND	NG	NG	ND	trace	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHES RW-4	ND	NG	trace	trace	trace	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
CHES RW-5	ND	NG	ND	ND	0.01	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
ESS RW-1	ND	NG	NG	ND	ND	ND	trace	Decomissioned	Decomissioned	Decomissioned	Decomissioned
ESS RW-2	ND	NG	NG	trace	ND	ND	ND	Decomissioned	Decomissioned	Decomissioned	Decomissioned
ESS RW-4	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND
RW-1	NI	0.02	trace	0.01	trace	trace	trace	Decomissioned	Decomissioned	Decomissioned	Decomissioned

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
RCA-21 was destroyed in late June 2014 and replaced with RW-1
This table presents LNAPL thickness data for monitoring wells that have exhibited LNAPL thicknesses of at least trace amounts since 2001.

Gray shading indicates NAPL 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

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
RCA-3	0.17	trace	trace	trace	ND	ND	ND	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 CNG Fueling Station portion of the Property

NG - Not Gauged

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

Gray shading indicates NAPL 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

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

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

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

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

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

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

Gray shading indicates NAPL 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

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

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

TABLE 6
LNAPL GAUGING AND RECOVERY - CHES-RW-A
642 Allens Avenue
Providence, Rhode Island

Date	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Estimated Volume Purged (gallons)
9/19/2017	7.83	8.85	1.02	110
9/21/2017	7.85	8.75	0.9	28
9/22/2017	7.84	8.75	0.91	110
9/25/2017	7.84	8.60	0.76	193
9/26/2017	8.34	8.75	0.41	110
9/27/2017	7.84	8.40	0.56	41
9/28/2017	7.82	8.35	0.53	NR
9/29/2017	7.88	8.53	0.65	55
10/2/2017	7.82	8.20	0.38	50
10/3/2017	7.91	8.23	0.32	NR
10/4/2017	7.86	8.25	0.39	50
10/5/2017	7.84	8.16	0.32	NR
10/6/2017	7.89	8.29	0.4	50
10/10/2017	7.79	8.28	0.49	50
10/11/2017	7.95	8.29	0.34	NR
10/12/2017	7.95	8.33	0.38	NR
10/13/2017	7.95	8.38	0.43	50
10/16/2017	8.10	8.42	0.32	45
10/17/2017	7.97	8.38	0.41	NR
10/18/2017	7.97	8.36	0.39	40
10/19/2017	8.00	8.36	0.36	NR
10/20/2017	8.11	8.33	0.22	50
10/23/2017	8.03	8.47	0.44	50
10/24/2017	7.92	8.17	0.25	NR
10/25/2017	5.85	6.04	0.19	45
10/26/2017	5.98	6.08	0.1	NR
10/27/2017	6.53	6.73	0.2	80
10/30/2017	2.52	2.80	0.28	NR
10/31/2017	4.40	4.70	0.3	45
11/1/2017	5.81	6.02	0.21	NR
11/2/2017	6.12	6.28	0.16	NR
11/3/2017	6.75	6.87	0.12	45
11/6/2017	6.95	7.15	0.2	165
11/7/2017	7.23	7.36	0.13	NR
11/8/2017	7.21	7.32	0.11	55
11/9/2017	7.2	7.25	0.05	NR
11/10/2017	7.75	7.84	0.09	50
11/13/2017	7.48	7.57	0.09	10
11/14/2017	7.51	7.64	0.13	NR
11/15/2017	7.45	7.59	0.14	NR
11/16/2017	7.31	7.4	0.09	NR
11/17/2017	7.46	7.59	0.13	30
11/20/2017	7.49	7.65	0.16	NR
11/21/2017	7.45	7.61	0.16	NR
11/22/2017	7.25	7.42	0.17	NR
3/20/2018	6.36	7.25	0.89	NR
4/26/2018	3.32	3.58	0.26	NR
5/15/2018	7.21	7.65	0.44	4
6/28/2018	7.56	9.05	1.49	3
8/30/2018	7.46	8.85	1.39	NR
9/5/2018	7.58	9.14	1.56	72
9/6/2018	7.70	8.00	0.3	NR
9/7/2018	7.77	8.40	0.63	NR
9/8/2018	7.71	8.28	0.57	NR
9/10/2018	7.73	8.43	0.7	NR
9/12/2018	7.59	8.36	0.77	NR
9/13/2018	6.69	7.31	0.62	NR
9/20/2018	6.68	7.31	0.63	NR
9/21/2018	6.76	7.42	0.66	NR
9/22/2018	7.08	7.75	0.67	NR
9/24/2018	7.07	7.82	0.75	NR
9/25/2018	4.91	5.92	1.01	NR
9/26/2018	4.91	5.92	1.01	NR
9/27/2018	4.63	5.65	1.02	NR

TABLE 6
LNAPL GAUGING AND RECOVERY - CHES-RW-A
642 Allens Avenue
Providence, Rhode Island

Date	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Estimated Volume Purged (gallons)
9/28/2018	4.63	5.65	1.02	NR
9/29/2018	5.07	6.08	1.01	NR
10/1/2018	5.56	6.50	0.94	NR
10/2/2018	5.75	6.80	1.05	20
10/3/2018	4.81	4.87	0.06	NR
10/4/2018	5.20	5.26	0.06	NR
10/5/2018	5.47	5.53	0.06	NR
10/6/2018	5.70	5.76	0.06	NR
10/9/2018	6.15	6.20	0.05	NR
10/10/2018	6.36	6.42	0.06	NR
10/11/2018	6.44	6.49	0.05	NR
10/12/2018	4.88	4.94	0.06	NR
10/13/2018	5.51	5.56	0.05	NR
10/15/2018	5.87	5.93	0.06	NR
10/16/2018	6.09	6.14	0.05	NR
10/17/2018	6.23	6.29	0.06	NR
10/18/2018	6.54	6.60	0.06	NR
10/19/2018	6.62	6.69	0.07	NR
10/20/2018	6.59	6.67	0.08	NR
10/22/2018	6.82	7.02	0.2	NR
10/23/2018	6.92	7.08	0.16	NR
10/24/2018	6.88	7.02	0.14	15
10/25/2018	7.09	7.23	0.14	NR
10/26/2018	7.18	7.34	0.16	NR
10/29/2018	6.44	6.89	0.45	NR
10/30/2018	6.55	6.96	0.41	NR
11/1/2018	6.59	7.03	0.44	NR
11/2/2018	6.63	7.04	0.41	NR
11/5/2018	6.33	6.74	0.41	NR
11/6/2018	6.15	6.57	0.42	NR
11/7/2018	5.84	6.25	0.41	NR
11/8/2018	5.95	6.36	0.41	NR
11/9/2018	6.10	6.54	0.44	NR
11/13/2018	5.00	5.43	0.43	NR
11/14/2018	5.48	5.78	0.3	NR
11/15/2018	5.69	6.09	0.4	NR
11/16/2018	5.32	5.73	0.41	NR
11/19/2018	5.21	5.61	0.4	NR
11/20/2018	5.50	5.90	0.4	NR
11/20/2018 - Well decommissioned in advance of gas line installation				

Notes: NR = Not Recovered
NM = Not Measured
Volume purged was noted as a mixture of LNAPL and groundwater

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

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 1803460-06 3/21/2018	RCA-12R 1803460-07 3/21/2018	RCA-15 1803460-08 3/21/2018	RCA-22 1803460-09 3/21/2018	RCA-36 1803460-10 3/20/2018	VHB-1 1803460-11 3/21/2018	VHB-20 1803460-12 3/21/2018	GZA-201 1803460-01 3/20/2018	GZ-301D 1803460-02 3/21/2018	GZ-304D 1803460-03 3/21/2018	GZ-309D 1803460-04 3/21/2018	GZ-319D 1803460-05 3/21/2018
EPA Method 8260B VOLATILE ORGANICS															
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	mg/L	3.1	68	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
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	<0.0005
1,1,2-Trichloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethene	mg/L	0.007	23	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.001	0.0059	0.0054	<0.001	<0.0010	0.0017	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
1,2-Dibromoethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichloroethane	mg/L	0.11	670	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichloropropane	mg/L	3	140	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,4-Dioxane - Screen	mg/L	NE	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1-Chlorohexane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2,2-Dichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Butanone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
2-Chlorotoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Hexanone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100

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

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 1803460-06 3/21/2018	RCA-12R 1803460-07 3/21/2018	RCA-15 1803460-08 3/21/2018	RCA-22 1803460-09 3/21/2018	RCA-36 1803460-10 3/20/2018	VHB-1 1803460-11 3/21/2018	VHB-20 1803460-12 3/21/2018	GZA-201 1803460-01 3/20/2018	GZ-301D 1803460-02 3/21/2018	GZ-304D 1803460-03 3/21/2018	GZ-309D 1803460-04 3/21/2018	GZ-319D 1803460-05 3/21/2018
EPA Method 8260B VOLATILE ORGANICS															
4-Chlorotoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
4-Isopropyltoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250
Acetone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Benzene	mg/L	0.14	18	0.0028	<0.0010	<0.0010	**1.08**	0.0359	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0056
Bromobenzene	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Bromochloromethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromodichloromethane	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	<0.0006
Bromoform	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromomethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Carbon Disulfide	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Tetrachloride	mg/L	0.07	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chlorobenzene	mg/L	3.2	56	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloroethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chloroform	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloromethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
cis-1,2-Dichloroethene	mg/L	2.4	69	0.0010	0.0024	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010
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	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dibromomethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Diethyl Ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	mg/L	1.6	16	<0.0010	<0.0010	<0.0010	0.0458	0.0046	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010

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

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 1803460-06 3/21/2018	RCA-12R 1803460-07 3/21/2018	RCA-15 1803460-08 3/21/2018	RCA-22 1803460-09 3/21/2018	RCA-36 1803460-10 3/20/2018	VHB-1 1803460-11 3/21/2018	VHB-20 1803460-12 3/21/2018	GZA-201 1803460-01 3/20/2018	GZ-301D 1803460-02 3/21/2018	GZ-304D 1803460-03 3/21/2018	GZ-309D 1803460-04 3/21/2018	GZ-319D 1803460-05 3/21/2018
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	<0.0006
Hexachloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	0.0427	0.0022	0.0061	<0.0010	0.0073	<0.0010	<0.0010	<0.0010	0.0017
Methyl tert-Butyl Ether	mg/L	5	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methylene Chloride	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Naphthalene	mg/L	2.67	NE	0.0141	<0.0010	0.0024	0.418	0.0042	<0.0010	<0.0010	0.0084	<0.0010	0.0023	<0.0010	0.0013
n-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	0.0044	<0.0010	<0.0010	<0.0010	0.0034	<0.0010	<0.0010	<0.0010	<0.0010
n-Propylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	0.0129	0.0014	0.0020	<0.0010	0.0043	<0.0010	<0.0010	<0.0010	<0.0010
sec-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	0.0025	<0.0010	0.0021	<0.0010	0.0041	<0.0010	<0.0010	<0.0010	<0.0010
Styrene	mg/L	2.2	50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
tert-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tetrachloroethene	mg/L	0.15	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Tetrahydrofuran	mg/L	NE	NE	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	mg/L	1.7	21	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
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	<0.0004
Trichloroethene	mg/L	0.54	87	<0.0010	0.0026	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Trichlorofluoromethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Trihalomethanes (Total)	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Vinyl Acetate	mg/L	NE	NE	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vinyl Chloride	mg/L	0.002	NE	**0.0028**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	<0.0010
Xylene O	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	0.0160	0.0023	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010
Xylene P,M	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	0.0034	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Xylenes (Total)	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	0.0194	0.0023	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020

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

NE = Not Established

Blue shaded cells indicate that the detection limit exceeds the RIDEM GB

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 8
SUMMARY OF GROUNDWATER QAQC VOC ANALYTICAL RESULTS
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	BD32118 1803460-13 3/21/2018	GZ-319D 1803460-05 3/21/2018	Trip Blank 1803460-14 3/20/2018	Trip Blank 1803460-15 3/21/2018
EPA Method 8260B VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	mg/L	3.1	68	<0.0010	<0.0010	<0.0010	<0.0010
1,1,2,2-Tetrachloroethane	mg/L	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloroethene	mg/L	0.007	23	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.0050	<0.0050	<0.0050	<0.0050
1,2-Dibromoethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichloroethane	mg/L	0.11	670	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichloropropane	mg/L	3	140	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
1,4-Dioxane - Screen	mg/L	NE	NE	<0.500	<0.500	<0.500	<0.500
1-Chlorohexane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
2,2-Dichloropropane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
2-Butanone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100
2-Chlorotoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
2-Hexanone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100
4-Chlorotoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
4-Isopropyltoluene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.0250	<0.0250	<0.0250	<0.0250
Acetone	mg/L	NE	NE	<0.0100	<0.0100	<0.0100	<0.0100
Benzene	mg/L	0.14	18	0.0050	0.0056	<0.0010	<0.0010
Bromobenzene	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Bromochloromethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Bromodichloromethane	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006
Bromoform	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Bromomethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Carbon Disulfide	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Tetrachloride	mg/L	0.07	NE	<0.0010	<0.0010	<0.0010	<0.0010
Chlorobenzene	mg/L	3.2	56	<0.0010	<0.0010	<0.0010	<0.0010
Chloroethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Chloroform	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Chloromethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
cis-1,2-Dichloroethene	mg/L	2.4	69	<0.0010	<0.0010	<0.0010	<0.0010
cis-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004
Dibromochloromethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Dibromomethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Diethyl Ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	mg/L	1.6	16	<0.0010	<0.0010	<0.0010	<0.0010
Hexachlorobutadiene	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006
Hexachloroethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene	mg/L	NE	NE	0.0016	0.0017	<0.0010	<0.0010
Methyl tert-Butyl Ether	mg/L	5	NE	<0.0010	<0.0010	<0.0010	<0.0010
Methylene Chloride	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Naphthalene	mg/L	2.67	NE	<0.0010	0.0013	<0.0010	<0.0010
n-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010

TABLE 8
SUMMARY OF GROUNDWATER QAQC VOC ANALYTICAL RESULTS
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	BD32118 1803460-13 3/21/2018	GZ-319D 1803460-05 3/21/2018	Trip Blank 1803460-14 3/20/2018	Trip Blank 1803460-15 3/21/2018
EPA Method 8260B VOLATILE ORGANICS							
n-Propylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
sec-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Styrene	mg/L	2.2	50	<0.0010	<0.0010	<0.0010	<0.0010
tert-Butylbenzene	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Tetrachloroethene	mg/L	0.15	NE	<0.0010	<0.0010	<0.0010	<0.0010
Tetrahydrofuran	mg/L	NE	NE	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	mg/L	1.7	21	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004
Trichloroethene	mg/L	0.54	87	<0.0010	<0.0010	<0.0010	<0.0010
Trichlorofluoromethane	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Trihalomethanes (Total)	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Vinyl Acetate	mg/L	NE	NE	<0.0050	<0.0050	<0.0050	<0.0050
Vinyl Chloride	mg/L	0.002	NE	<0.0010	<0.0010	<0.0010	<0.0010
Xylene O	mg/L	NE	NE	<0.0010	<0.0010	<0.0010	<0.0010
Xylene P,M	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020
Xylenes (Total)	mg/L	NE	NE	<0.0020	<0.0020	<0.0020	<0.0020

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 32118 is a blind duplicate of GZ-319D

FIGURES

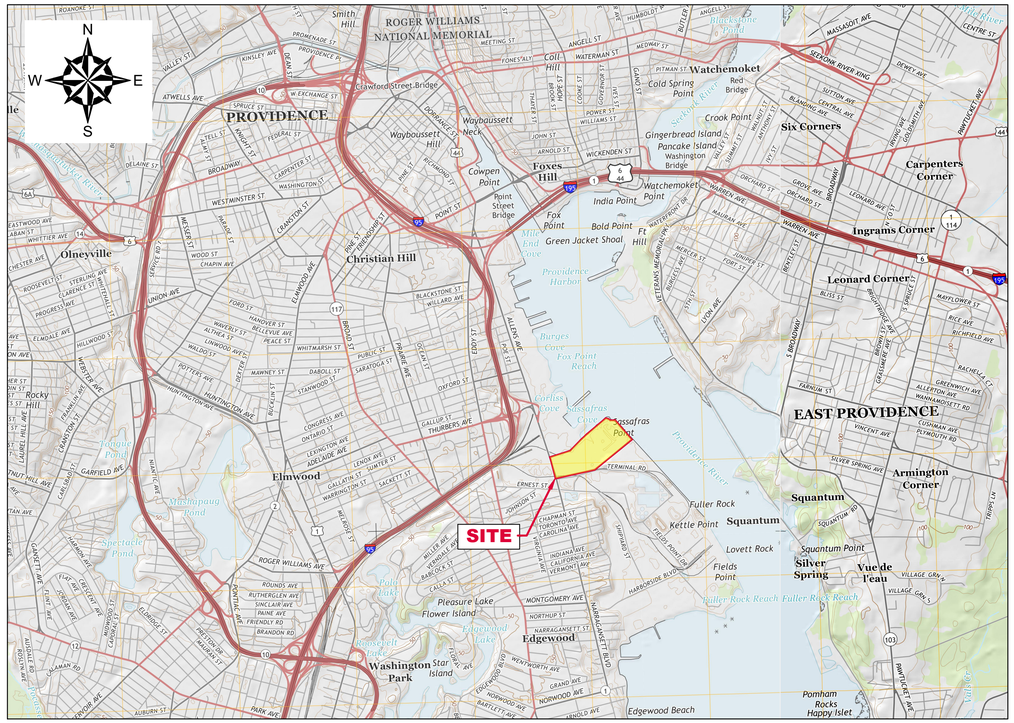
NATIONAL GRID
MONITORING REPORT - 2018
FORMER MANUFACTURED GAS PLANT (MGP)
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND
JANUARY 2021

PREPARED FOR:

nationalgrid

PREPARED BY:

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



LOCUS MAP

SOURCE: USGSSTORE.GOV

0 1000' 2000' 4000' 6000'

SCALE: 1 INCH = 2000 FEET

INDEX OF DRAWINGS	
SHEET #	TITLE
C1	TITLE SHEET AND INDEX TO DRAWINGS
N1	GENERAL NOTES AND LEGEND
2	OVERALL AERIAL SITE PLAN
3A	EXPLORATION LOCATION PLAN - 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 (MARCH 2018)
6	HISTORICAL NAPL THICKNESS (>0.01 FEET) (2001-2018)
7	2018 NAPL AND GROUNDWATER ANALYTICAL DATA

FINAL
ISSUED FOR PERMITTING

LEGEND:

- PROPERTY LINE
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- LIGHT POLE
- CATCH BASIN FRAME AND GRATE
- STEEL POST
- PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- 10 — EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- 11 — EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- SITE AREA BOUNDARY
- PAVEMENT
- CONCRETE
- HISTORICAL STRUCTURE OR FEATURE
- 200 FOOT CRMC BUFER

EXPLORATION LEGEND:

Symbol label	Description
GZ-314 S/D	ENVIRONMENTAL BORING OBSERVED BY GZA IN 2014
VHB-7	ENVIRONMENTAL BORING OBSERVED BY VHB IN 2002 AND 2003
F47	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999 AND 2000
1	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999
RHB-1	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1998
RCA-40	ENVIRONMENTAL BORING OBSERVED BY RCA BETWEEN 1994-1996
TP-301	ENVIRONMENTAL TEST PITS OBSERVED BY GZA IN 2014
VHB TP-101	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2008
TP-1	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2002
ETP-4	ENVIRONMENTAL TEST PITS OBSERVED BY RCA IN 1995 AND 1996
SS–301	SURFACE SOIL SAMPLE COLLECTED BY GZA IN 2014
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SU–6 No.9	SURFACE SOIL SAMPLE COLLECTED BY RCA IN 1994 AND 1995
RSS–1	SEDIMENT SAMPLE COLLECTED BY RCA IN 1994 AND 1995
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
B-201	GEOTECHNICAL BORING PERFORMED BY GOLDER ASSOCIATES IN 2016
GZ-3	GEOTECHNICAL BORING BY GZA IN 2016
PP-1	GEOTECHNICAL BORING PERFORMED BY PROCESS PIPELINE SERVICES IN 2015
GZ-401	GEOTECHNICAL BORING OBSERVED BY GZA IN 2015
SB-01	GEOTECHNICAL BORING OBSERVED BY WEIDLINGER ASSOCIATES, INC. (WAI) IN 2015
GZA–206	GEOTECHNICAL BORING OBSERVED BY GZA IN 2005
GZ–1	GEOTECHNICAL BORING OBSERVED BY GZA IN 2004
SWBL13	GEOTECHNICAL BORING OBSERVED BY SWEC IN 1995
B-207	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1973
B–25	GEOTECHNICAL BORING OBSERVED BY HALEY & ALDRICH IN 1971 AND 1972
PGC-8	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1912
	ENVIRONMENTAL TEST PIT OBSERVED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND:

Symbol label	Description
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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
	ACTIVE MONITORING WELLS
	DECOMMISSIONED OR DESTROYED MONITORING WELLS (PRE-2016)
	2016 DECOMMISSIONED MONITORING WELLS
	TEMPORARY MONITORING WELL-ASSUMED DESTROYED
	RECOVERY WELLS
	RECOVERY WELL DESTROYED NOVEMBER 2018
	DETECTED LNAPL THICKNESS (≥0.01 FEET)
	DETECTED DNAPL THICKNESS (≥0.01 FEET)
	INDICATES THAT THE MONITORING WELL IS PROPOSED TO BE SAMPLED AS PART OF THE 2019 SAMPLING PROGRAM
	MONITORING WELL SAMPLED IN 2018
5	SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON MARCH 19, 2018.
4	INFERRED SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON MARCH 19, 2018.
2.93S 2.56D	GROUNDWATER ELEVATION OBSERVED ON MARCH 19, 2018 (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)

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

- 0.008 — AGGREGATE VOC CONCENTRATION [PPM]
- 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)
[S/D]	INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP
ND	NOT DETECTED

GENERAL NOTES:

1) EXISTING CONDITIONS BASE MAP DEVELOPED FROM THE FOLLOWING:
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG
   - ELECTRONIC CAD FILE "3654 642 ALLENS AVE ASBUILT.DWG", PREPARED BY A-PLUS CONSTRUCTION SERVICES CORPORATION FOR CHARTER ENVIRONMENTAL, TITLED "AS-BUILT PLAN," SHEET 1 TITLED "SUB GRADE" AND SHEET 2 TITLED "FINISH GRADE," DATED DECEMBER 16, 2016 AND PROVIDED TO GZA ON MARCH 23, 2017
   - ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011 AND 2018.
2) PROPERTY LINES AND LOT INFORMATION ESTABLISHED FROM INFORMATION PROVIDED ON A DRAWING ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3.
3) EXPLORATION LOCATION PLANS WERE DEVELOPED FROM THE FOLLOWING:
   - SITE PLANS PROVIDED BY RESOURCE CONTROLS ASSOCIATES (RCA) IN THE RIDEM-SUBMITTED JULY 5, 1994 "SITE CHARACTERIZATION PLAN" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY RCA IN THE RIDEM-SUBMITTED JUNE 28, 1996 "PHASE IB FIELD CHARACTERIZATION INVESTIGATION" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY ENVIRONMENTAL SCIENCE SERVICES, INC. (ESS) IN THE RIDEM-SUBMITTED DECEMBER 4, 1998 "REMEDIAL ACTION WORK PLAN (RAWP)" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY ESS IN THE RIDEM-SUBMITTED OCTOBER 21, 1999 "SUBSURFACE INVESTIGATION AND PROPOSED ALGONQUIN GENERATOR CONSTRUCTION AREA" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED NOVEMBER 2002 "REMEDIAL ACTION CLOSURE REPORT" PREPARED ON BEHALF OF THE NEW ENGLAND GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED APRIL 2003 "SITE INVESTIGATION REPORT" PREPARED ON BEHALF OF THE NEW ENGLAND GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED JANUARY 26, 2009 "OXIDE BOX INVESTIGATION TECHNICAL MEMORANDUM" PREPARED ON BEHALF OF NATIONAL GRID. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 3 "EXPLORATION LOCATION PLAN" PREPARED BY GZA GEOENVIRONMENTAL, INC. (GZA) ON BEHALF OF CHICAGO BRIDGE AND IRON (CB&I) IN JULY 2005. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 35 "TEST BORINGS UNDER SASSAFRAS POINT PLAT" DATED JUNE 5, 1912 PREPARED BY THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - DRAWING 3 "WHARF FACILITIES - BULKHEAD REBUILDING - CROSS SECTIONS" DATED JANUARY 11, 1973 PREPARED BY PARSONS, BRINCKERHOFF, QUADE AND DOUGLAS ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 2 "EXPLORATION LOCATION PLAN," DATED SEPTEMBER 18, 2015, BY WEIDLINGER ASSOCIATES, INC. (WEI) ON BEHALF OF KIEWIT CORPORATION (KIEWIT). PLAN PROVIDED BY NATIONAL GRID.
   - DRAWING 5153_C00_(SENT OUT 05-03-16).DWG BY PROCESS PIPELINE SERVICES OF WALPOLE MASSACHUSETTS TITLED "SITE PLAN" SHEET A02, DATED APRIL 27, 2016 AND PROVIDED BY NATIONAL GRID ON MAY 6, 2016.
   - FIGURE 2 "EXPLORATION LOCATION PLAN," DATED MARCH 22, 2016, BY GOLDER ASSOCIATES ON BEHALF OF CHI ENGINEERING SERVICES, INC. PLAN PROVIDED BY NATIONAL GRID.
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG. PLANS PROVIDED BY NATIONAL GRID.
   - ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011 AND 2018.
4) THE LOCATION OF THE EXPLORATIONS AND MONITORING WELLS AT THE SITE WERE APPROXIMATELY DETERMINED AND HAVE BEEN ALIGNED AND ADJUSTED FOR THE "BEST FIT" AND THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
5) HORIZONTAL DATUM IS BASED ON NAD 1983 FROM BASE MAPPING PROVIDED BY VHB.
6) VERTICAL DATUM IS BASED ON NAVD 1988 FROM BASE MAPPING PROVIDED BY VHB.
7) APPROXIMATE HISTORICAL STRUCTURE/EQUIPMENT LOCATIONS AND DATES WERE OBTAINED FROM THE FOLLOWING SOURCES:
   - CERTIFIED SANBORN MAPS DATED: 1950, 1956, 1972, 1977 AND 1982
   - AERIAL ORTHOPHOTOGRAPHIC IMAGES OBTAINED FROM RIGIS: 1939, 1951, 1962, 1972, 1976, 1981, 1988, 1992, 1995, 1997, 2002, 2008
   - SITE PLANS PROVIDED BY RESOURCE CONTROLS ASSOCIATES (RCA) IN THE RIDEM-SUBMITTED JULY 5, 1994 "SITE CHARACTERIZATION PLAN" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - HISTORIC SITE PLAN "GENERAL PLAN OF WORKS, PROVIDENCE GAS COMPANY, SASSAFRAS POINT PLANT, PROVIDENCE, RHODE ISLAND." UNDATED. PLANS PROVIDED BY NATIONAL GRID.
8) THE SITE HAS BEEN THE LOCATION OF NUMEROUS REMEDIAL ACTIONS. THIS PLAN SET DOES NOT PRESENT THE LOCATIONS OF ANY CONFIRMATORY SAMPLES THAT HAVE BEEN COLLECTED AT THE SITE. THIS PLAN SET MAY INCLUDE LOCATIONS THAT HAVE BEEN FULLY EXCAVATED AND THE PRESENTED EXPLORATIONS MAY NOT BE TRUE TO CURRENT CONDITIONS.
9) THIS PLAN SET DOES NOT PRESENT THE LOCATIONS OF SAMPLES THAT WERE COLLECTED FOR GEOTECHNICAL PURPOSES ONLY. THIS INCLUDES CONE PENETROMETER TESTING SAMPLES AND TEST PITS CONDUCTED WITH NO SOIL DESCRIPTIONS OR ENVIRONMENTAL SAMPLES COLLECTED. HOWEVER, THE LOCATIONS OF KNOWN GEOTECHNICAL BORINGS (PRESENTED ON PLANS PROVIDED BY NATIONAL GRID) ARE PRESENTED IN THIS PLAN SET.
10) LOGS FROM GEOTECHNICAL BORINGS SERIES PGC-1 (1912 GEOTECHNICAL BORINGS PERFORMED FOR THE PROVIDENCE GAS COMPANY) AND SERIES B-200 (1973 GEOTECHNICAL BORINGS PERFORMED FOR THE PROVIDENCE GAS COMPANY) CONSIST OF FENCE DIAGRAMS ONLY.

FINAL
ISSUED FOR PERMITTING

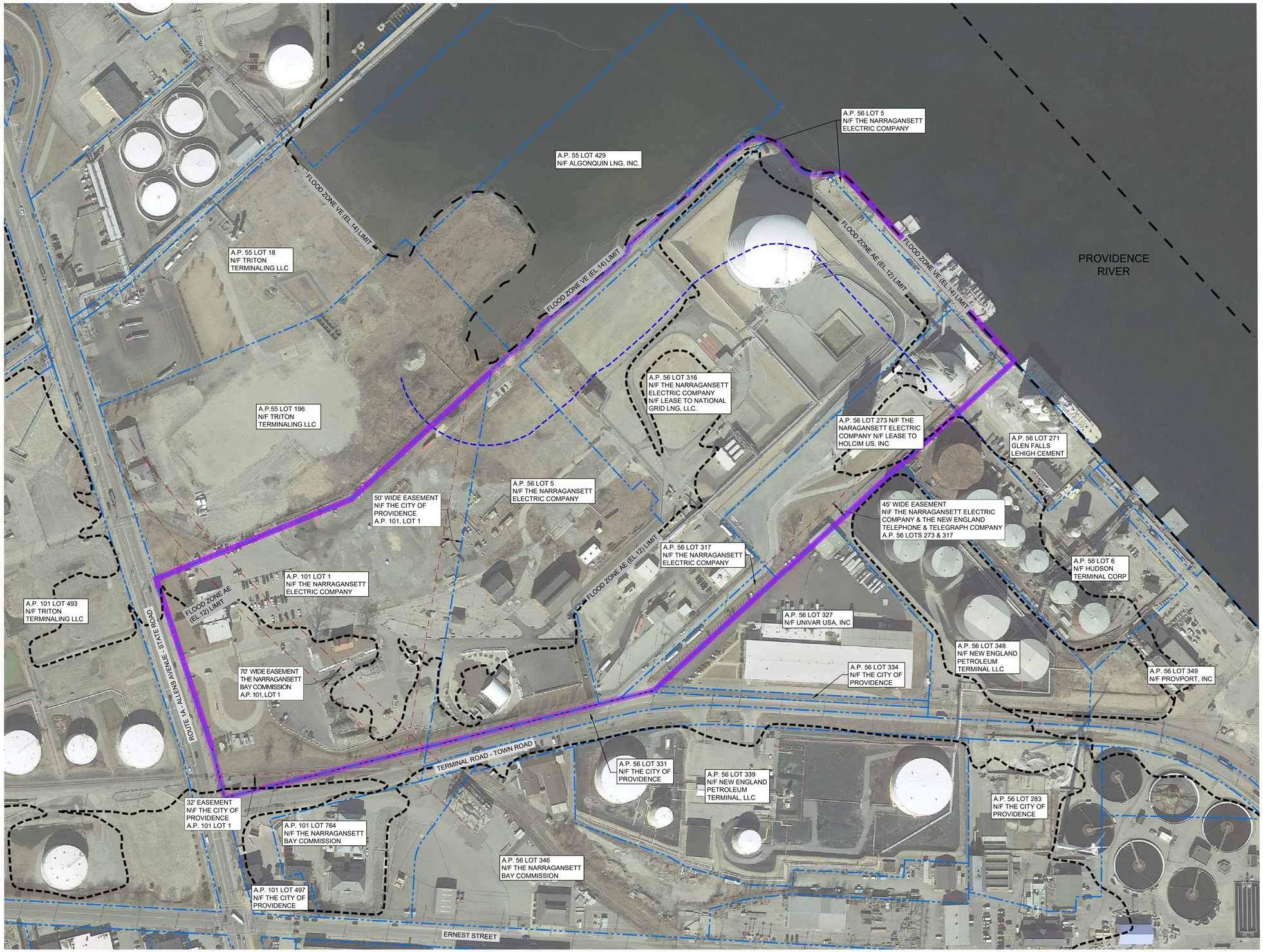
NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

GENERAL NOTES AND LEGEND

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

PREPARED FOR: nationalgrid

PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	N1
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 2 OF 9



LEGEND:

- PROPERTY LINES
- 642 ALLENS AVENUE FORMER MGP SITE
- CRMC 200-FOOT JURISDICTIONAL LINE
- EASEMENT AREA
- FLOOD ZONE VE (EL. 14) LIMIT
- FLOOD ZONE AE (EL. 12) LIMIT

REFERENCE NOTES:

1. BASE MAP DEVELOPED FROM RHODE ISLAND'S RIGIS AERIAL IMAGERY PUBLISHED IN APRIL 2019.
2. PROPERTY LINES AND LOT INFORMATION ESTABLISHED FROM INFORMATION PROVIDED ON A DRAWING ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3.
3. EASEMENT LOCATIONS WERE DEVELOPED FROM THE FOLLOWING:
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG. PLANS PROVIDED BY NATIONAL GRID.
   - DESCRIPTIONS PROVIDED IN THE CITY OF PROVIDENCE DEED BOOK (BK) 470 PAGES 224 - 229, BK 561 PAGES 326 - 328, BK 1111 PAGES 752 -756 AND BK 5249 PAGES 219 - 322.
4. FLOOD ZONE HAZARD AREA DATA WERE PROVIDED BY RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS) AND DERIVED FROM STATEWIDE DIGITAL FLOOD INSURANCE RATE MAP (DFIRM) DATABASE, ORIGINALLY PUBLISHED BY FEMA IN OCTOBER 2015.
5. SITE BOUNDARIES ARE APPROXIMATE.

FINAL
ISSUED FOR PERMITTING

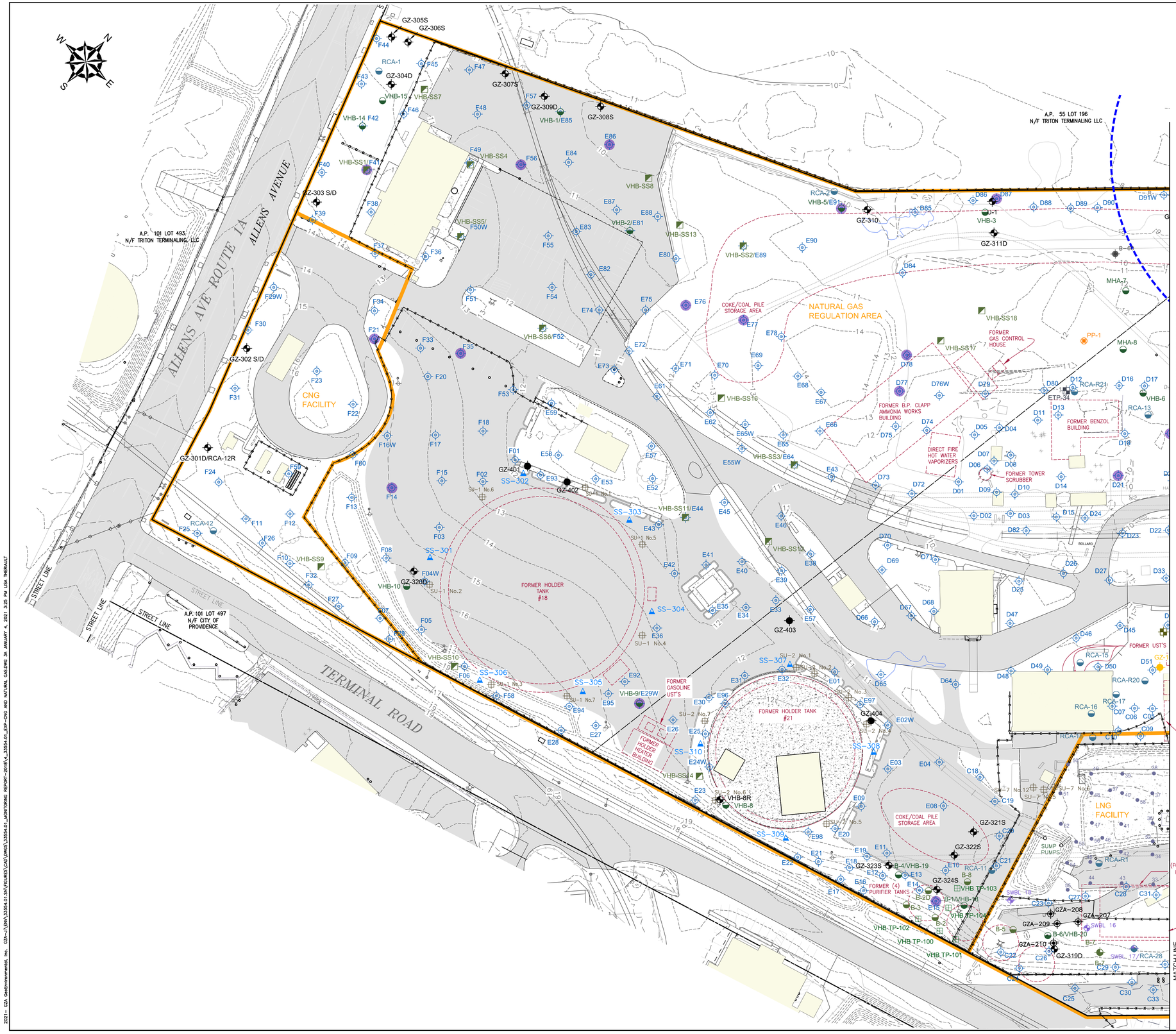
N
W E
S

0 60' 120' 240' 360'
SCALE IN FEET 1" = 120'

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

OVERALL AERIAL

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: nationalgrid	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 2
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 3 OF 9



EXPLORATION LEGEND:

GZ-314 S/D	ENVIRONMENTAL BORING OBSERVED BY GZA IN 2014
VHB-7	ENVIRONMENTAL BORING OBSERVED BY VHB IN 2002 AND 2003
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LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- HISTORICAL STRUCTURE OR FEATURE
- PAVEMENT
- CONCRETE
- HYDRANT
- 200 FOOT CRMC SETBACK

NOTE:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

FINAL
ISSUED FOR PERMITTING

0 25 50 100 150
SCALE IN FEET 1" = 50'

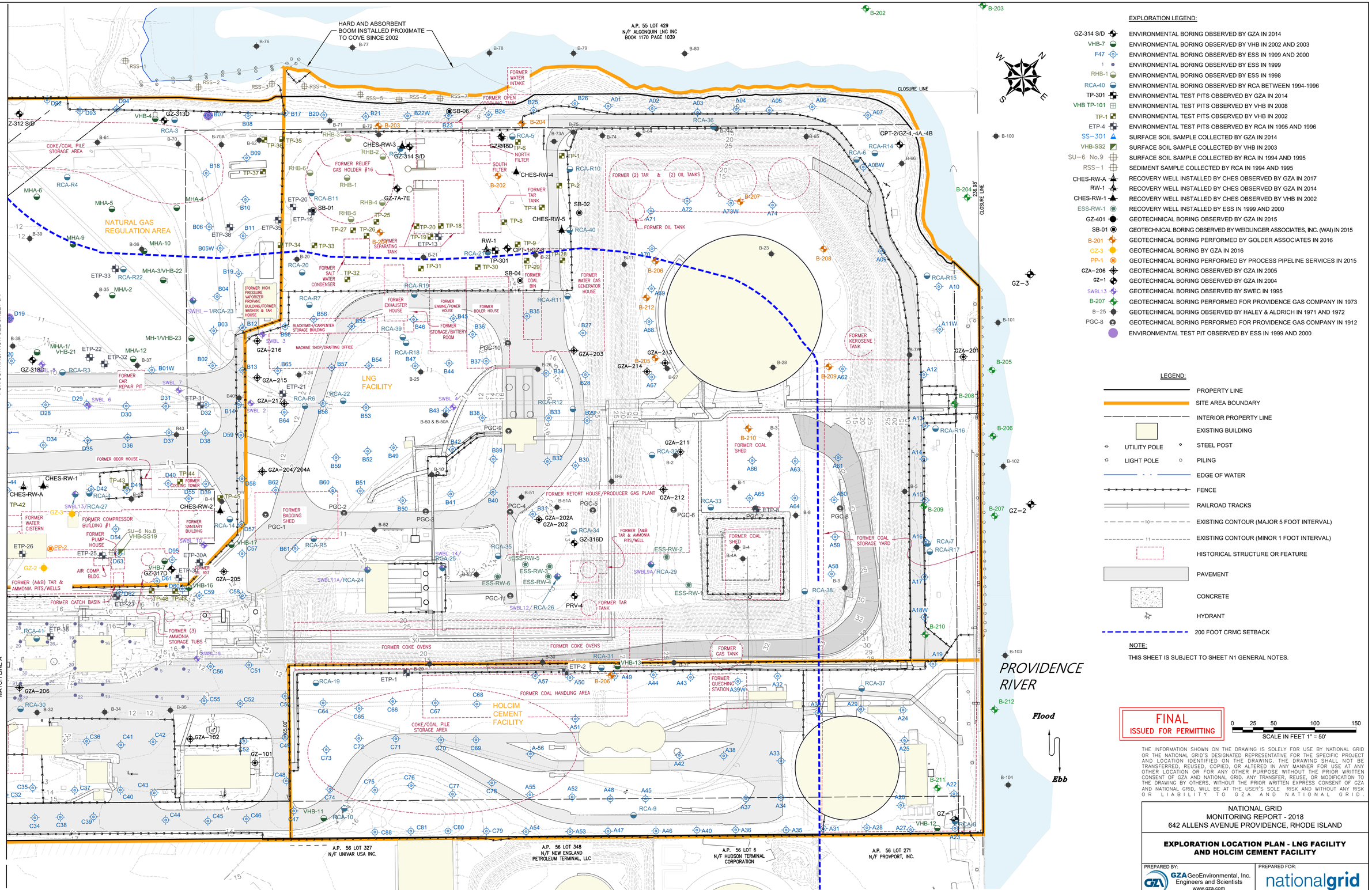
NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

EXPLORATION LOCATION PLAN - CNG FACILITY AND NATURAL GAS REGULATION FACILITY

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

PREPARED FOR:
nationalgrid

PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 3A
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 4 OF 9



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TP-301	ENVIRONMENTAL TEST PITS OBSERVED BY GZA IN 2014
VHB TP-101	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2008
TP-1	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2002
ETP-4	ENVIRONMENTAL TEST PITS OBSERVED BY RCA IN 1995 AND 1996
SS-301	SURFACE SOIL SAMPLE COLLECTED BY GZA IN 2014
VHB-SS2	SURFACE SOIL SAMPLE COLLECTED BY VHB IN 2003
SU-6 No.9	SURFACE SOIL SAMPLE COLLECTED BY RCA IN 1994 AND 1995
RSS-1	SEDIMENT SAMPLE COLLECTED BY RCA IN 1994 AND 1995
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
GZ-401	GEOTECHNICAL BORING OBSERVED BY GZA IN 2015
SB-01	GEOTECHNICAL BORING OBSERVED BY WEIDLINGER ASSOCIATES, INC. (WAI) IN 2015
B-201	GEOTECHNICAL BORING PERFORMED BY GOLDER ASSOCIATES IN 2016
GZ-3	GEOTECHNICAL BORING BY GZA IN 2016
PP-1	GEOTECHNICAL BORING PERFORMED BY PROCESS PIPELINE SERVICES IN 2015
GZA-206	GEOTECHNICAL BORING OBSERVED BY GZA IN 2005
GZ-1	GEOTECHNICAL BORING OBSERVED BY GZA IN 2004
SWBL13	GEOTECHNICAL BORING OBSERVED BY SWEC IN 1995
B-207	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1973
B-25	GEOTECHNICAL BORING OBSERVED BY HALEY & ALDRICH IN 1971 AND 1972
PGC-8	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1912
	ENVIRONMENTAL TEST PIT OBSERVED BY ESS IN 1999 AND 2000

LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- HISTORICAL STRUCTURE OR FEATURE
- PAVEMENT
- CONCRETE
- HYDRANT
- 200 FOOT CRMC SETBACK

NOTE:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

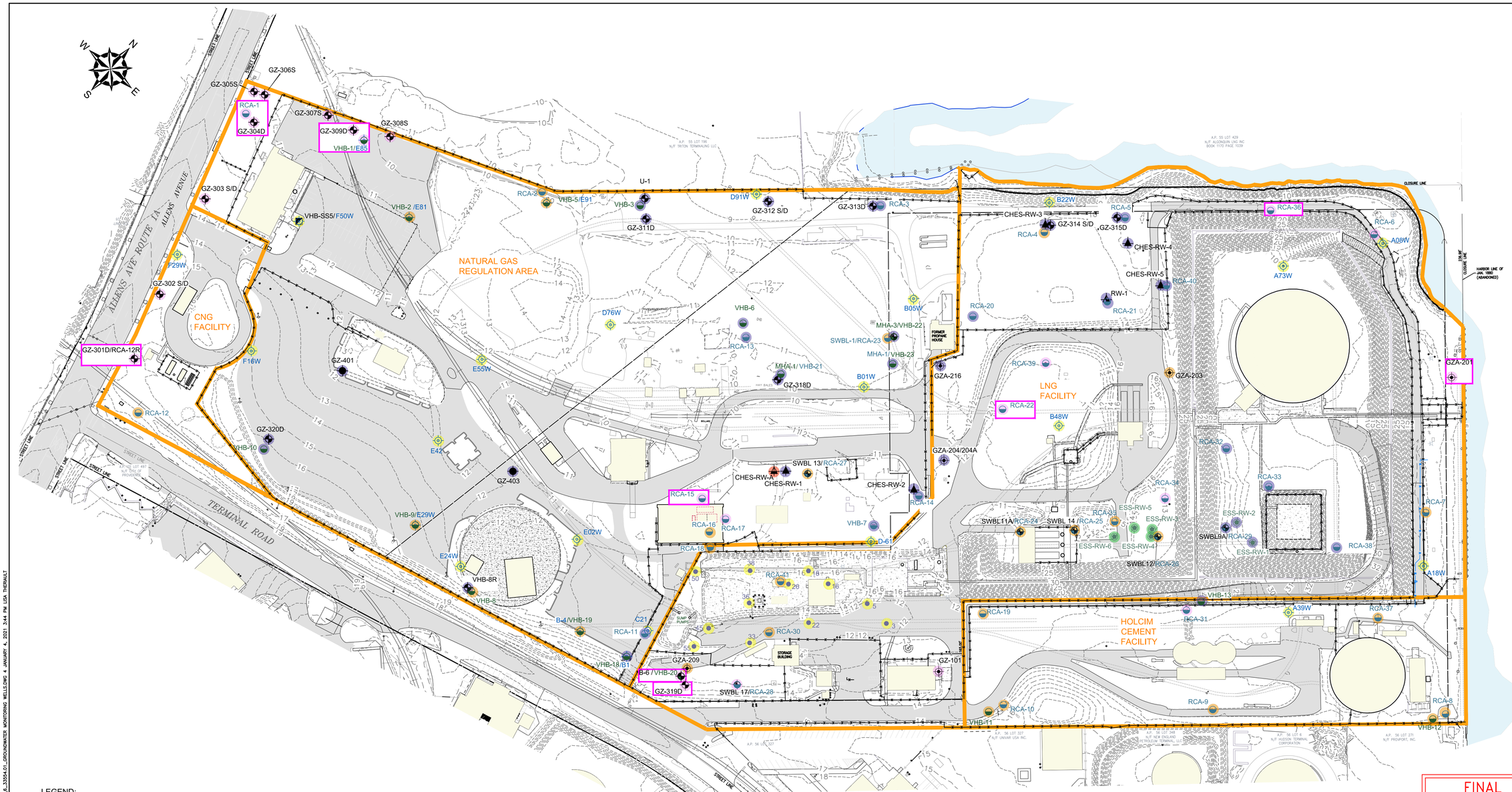
FINAL
ISSUED FOR PERMITTING

0 25 50 100 150
SCALE IN FEET 1" = 50'

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

EXPLORATION LOCATION PLAN - LNG FACILITY AND HOLCIM CEMENT FACILITY

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: nationalgrid	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 3B
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 5 OF 9



FINAL
ISSUED FOR PERMITTING

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

LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- 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
- RECOVERY WELL DESTROYED NOVEMBER 2018
- MONITORING WELL SAMPLED IN 2018

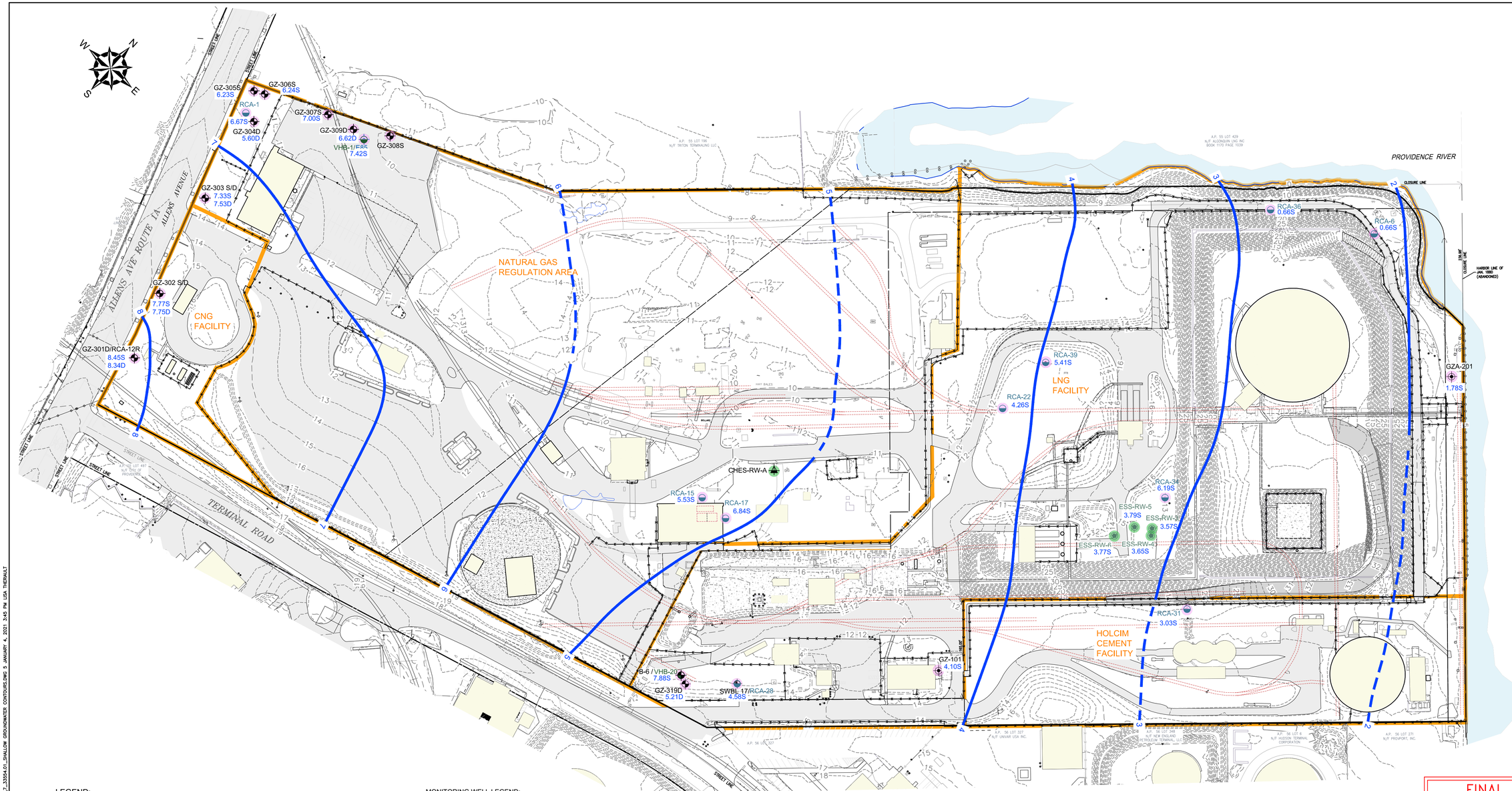
NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

GROUNDWATER MONITORING WELLS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: nationalgrid	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 4
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 6 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- 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
2.93S 2.56D	GROUNDWATER ELEVATION OBSERVED ON MARCH 19, 2018 (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 MARCH 19, 2018
- 4 — INFERRED SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON MARCH 19, 2018

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 MARCH 19, 2018
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:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

FINAL
ISSUED FOR PERMITTING

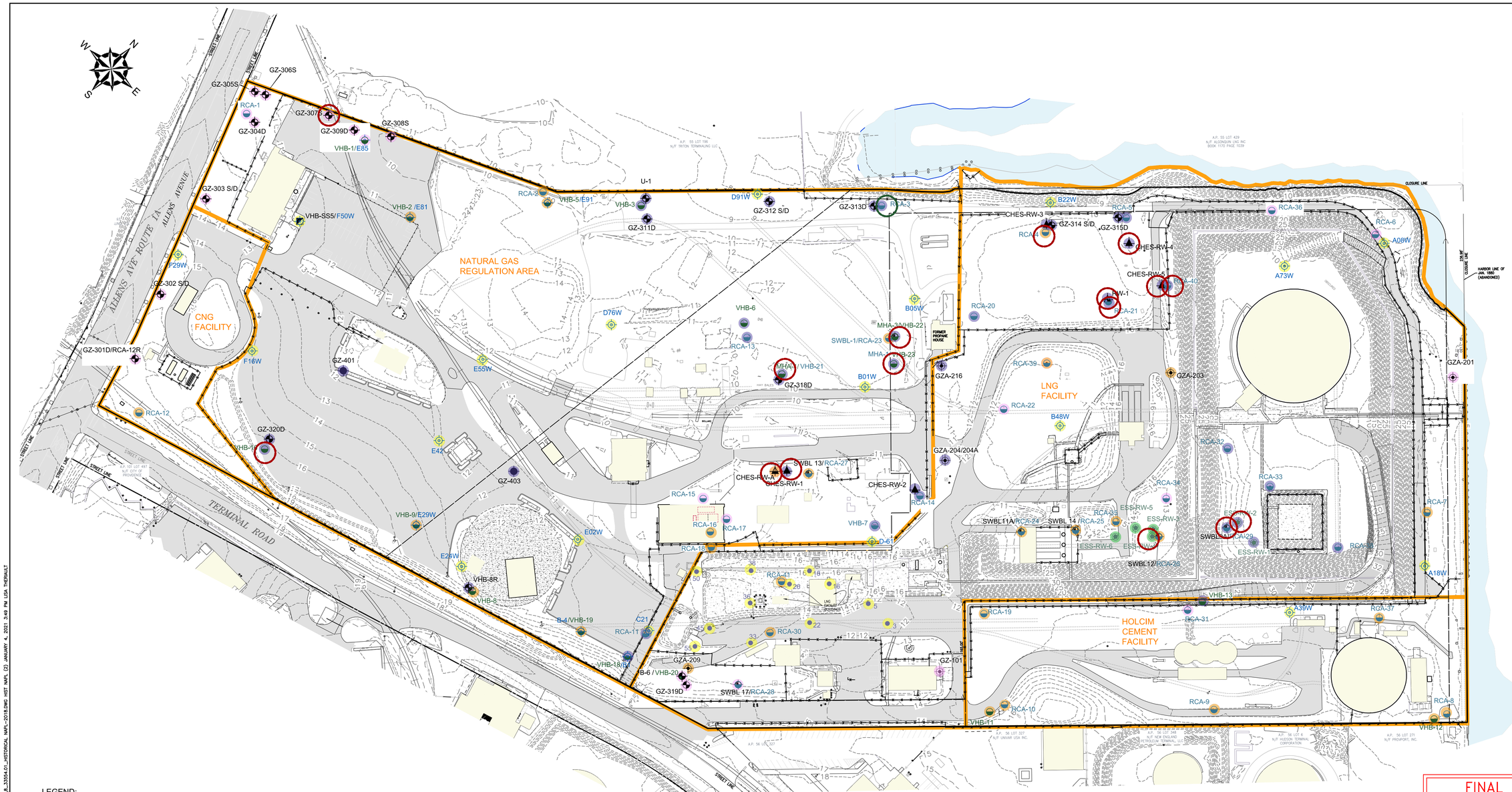
0 40 80 160 240
SCALE IN FEET 1" = 80'

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

SHALLOW GROUNDWATER CONTOURS

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

PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 5
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 7 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- 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
- DETECTED LNAPL THICKNESS (≥0.01 FEET)
- DETECTED DNAPL THICKNESS (≥0.01 FEET)

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

FINAL
ISSUED FOR PERMITTING

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

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

HISTORICAL NAPL THICKNESS (≥0.01 FEET)
(2001-2018)

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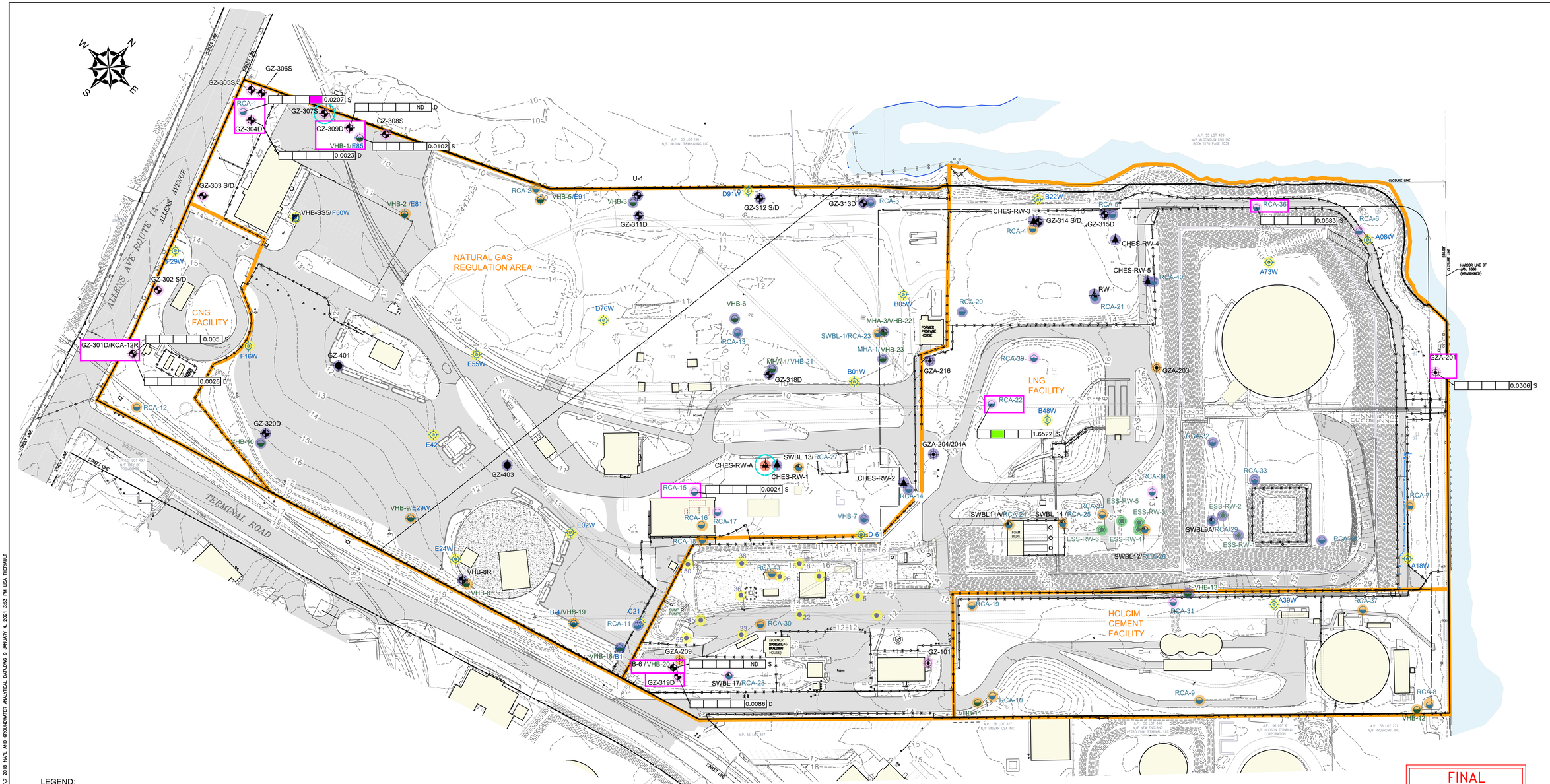
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 6
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 8 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- LIGHT POLE
- STEEL POST
- PILING
- 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
- RECOVERY WELL DESTROYED NOVEMBER 2018
- MONITORING WELL SAMPLED IN 2018

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

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

0.008 S — AGGREGATE VOC CONCENTRATION [PPM]; 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 2018

[S/D] — INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP

ND — NOT DETECTED

FINAL
ISSUED FOR PERMITTING

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

NATIONAL GRID
MONITORING REPORT - 2018
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

2018 NAPL AND GROUNDWATER ANALYTICAL DATA

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

PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 7
DESIGNED BY: SH	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: JANUARY, 2021	PROJECT NO. 33554.01	REVISION NO. 0	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

Groundwater Sampling Low Flow Logs

File No.	33554.01	Well ID:	GZA-201
Project	642 Allens Ave	Sample Date:	3/19/2018
Location	City: Providence State: RI	Sampler's name:	RH / CL / EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 3/19/18 - 1415

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	20.54	Standing water in well (feet)	11.03
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	9.51	Sample Depth (feet bgs)	15
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	10 to 20	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [ ] yes [X] no **Well ID** [ ] yes [X] no

lock [X] yes [ ] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1437 Stop time: 1600

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1438	11.17	-59.9	8.86	291	6.06	8.57	633.0	250	
1455	11.31	-46.3	6.91	282	0.84	8.91	251.1	250	
1531	11.20	-43.2	6.78	305	0.68	8.88	223.6	250	
1554	11.72	-62.2	6.83	317	0.50	8.47	226.6	250	
1557	11.73	-62.5	6.82	317	0.49	8.43	208.2	250	
1600	11.70	-63.10	6.82	316	0.48	8.43	196.4	250	

SAMPLE TESTING INFORMATION **Sample time:** 1600

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity cloudy

Purge Volume: 7 gallons

Tubing Volume: 0.1 gallons

Notes: Water purge started with rusty color, cleared over time. Trace sheen.

File No.	33554.01	Well ID:	GZA-301D
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 3/21/18 - 1130

Point of measurement PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	29.70	Standing water in well (feet)	25.48
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	4.22	Sample Depth (feet bgs)	25
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	20 to 30	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1205 Stop time: 1245

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1217	9.24	12.9	6.26	3972	4.19	8.78	4.00	200	
1222	9.25	12.1	6.66	1475	2.40	11.06	4.00	200	
1228	9.26	-22.9	6.65	1495	2.33	11.11	4.00	200	
1233	9.27	-28.3	6.65	1508	2.18	11.16	4.00	200	
1238	9.30	-31.6	6.66	1515	1.82	11.36	2.1	200	
1242	9.30	-33.9	6.65	1516	1.78	11.44	3.6	200	
1245	9.30	-34.5	6.65	1516	1.78	11.45	1.4	200	

SAMPLE TESTING INFORMATION **Sample time:** 1245

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 3.5 gallons

Tubing Volume: 0.2 gallons

Notes:

File No.	33554.01	Well ID:	GZA-309D
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 3/21/18 - 1100

Point of measurement PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	29.90	Standing water in well (feet)	26.25
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	3.65	Sample Depth (feet bgs)	25
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	20 to 30	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [X] yes [ ] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1049 Stop time: 1118

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1104	6.05	-65.4	7.31	2309	4.24	10.92	1.9	200	
1111	8.80	-76.4	7.31	2244	5.07	11.13	0.1	200	
1114	6.84	-82.5	7.32	2191	4.81	11.17	0.7	200	
1118	7.16	-85.9	7.32	2180	4.56	11.29	0.4	200	

SAMPLE TESTING INFORMATION **Sample time:** 1118

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color slightly black Odor none Clarity clear

Purge Volume: 2 gallons

Tubing Volume: 0.2 gallons

Notes:

File No. 33554.01 | Well ID: GZA-319D
Project 642 Allens Ave | Sample Date: 3/21/2018
Location City: Providence State: RI | Sampler's name: RH / EN
Weather: Cloudy 40's

WATER LEVEL OBSERVATIONS measurement date/time: 03/21/18 - 0829

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	32.30	Standing water in well (feet)	23.29
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	9.01	Sample Depth (feet bgs)	25
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	20 to 30	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no
lock [X] yes [ ] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 0831 Stop time: 0927

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
0841	9.19	119.2	6.43	860	8.84	8.76	24.3	200	
0912	9.21	-34.4	6.68	893	1.86	9.62	12.2	200	
0918	9.23	-39.2	6.64	894	1.74	9.47	10.8	200	
0924	9.19	-42.1	6.65	897	1.62	9.43	11.0	200	
0927	9.19	-43.0	6.68	896	1.58	9.46	10.9	200	

SAMPLE TESTING INFORMATION **Sample time:** 0927

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 2.5 gallons
Tubing Volume: 0.2 gallons

Notes: BD 32118 collected at 9:27

File No.	33554.01	Well ID:	RCA-1
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	ROH
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 03/21/18 - 1117

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	14.75	Standing water in well (feet)	9.55
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	5.20	Sample Depth (feet bgs)	11.5
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	6.5 to 16.5	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1120 Stop time: 1206

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1148	5.38	-47.1	7.85	879	3.79	9.77	19.2	200	
1154	5.40	-34.4	7.21	806	0.89	9.58	8.1	200	
1157	5.40	-.34.3	7.15	740	0.79	9.61	7.5	200	
1200	5.40	-29.1	7.10	767	0.30	9.65	7.2	200	
1203	5.40	-28.7	7.08	760	0.37	9.59	7.0	200	
1206	5.40	-29.0	7.07	755	0.39	9.58	6.9	200	

SAMPLE TESTING INFORMATION **Sample time:** 1206

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 3 gallons

Tubing Volume: 0.1 gallons

Notes:

File No.	33554.01	Well ID:	RCA-12R
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	EN / RH
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 3/21/18 - 12:00

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	14.52	Standing water in well (feet)	5.56
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	8.96	Sample Depth (feet bgs)	10
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	5 to 15	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1225 Stop time: 1308

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1253	8.97	17.5	6.27	8026	5.55	9.55	12.1	200	
1256	8.97	23.3	6.23	8177	3.48	9.40	15.2	200	
1259	8.97	31.3	6.20	8244	3.19	9.51	14.3	200	
1302	8.97	35.9	6.19	8265	2.93	9.46	11.6	200	
1305	8.97	42.0	6.17	8270	2.87	9.43	12.6	200	
1308	8.98	44.9	6.17	8268	2.85	9.44	12.9	200	

SAMPLE TESTING INFORMATION **Sample time:** 1308

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 3.5 gallons

Tubing Volume: 0.1 gallons

Notes:

File No. 33554.01 | Well ID: RCA-15
Project 642 Allens Ave | Sample Date: 3/21/2018
Location City: Providence State: RI | Sampler's name: CL
Weather: Cloudy 40's

WATER LEVEL OBSERVATIONS measurement date/time: 3/21/18 - 0850

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	17.90	Standing water in well (feet)	10.45
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	7.45	Sample Depth (feet bgs)	9
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	4 to 14	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no
lock [X] yes [ ] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 0905 Stop time: 0955

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
0905	7.45	130	6.30	594	1.27	7.3	480	250	
0945	7.45	124	5.92	609	0.37	7.7	23	250	
0948	7.46	124	5.90	616	0.37	7.7	25	250	
0955	7.46	124	5.90	609	0.36	7.7	23	250	

SAMPLE TESTING INFORMATION **Sample time:** 0955

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color rusty tint Odor none Clarity clear

Purge Volume: 4 gallons
Tubing Volume: 0.1 gallons

Notes:

File No.	33554.01	Well ID:	RCA-22
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	RH / EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 03/21/18 - 0741

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	12.80	Standing water in well (feet)	4.14
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	8.66	Sample Depth (feet bgs)	11
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	3 to 13	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [ ] yes [X] no

lock [X] yes [ ] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 0811 Stop time: 0855

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
0814	9.25	-52.5	7.46	1194	5.09	7.83	18.7	200	
0845	9.25	-120.1	7.29	1233	0.30	8.71	8.7	200	
0848	9.25	-119.2	7.30	1241	0.29	8.79	7.1	200	
0851	9.21	-122.5	7.31	1260	0.26	8.81	6.6	200	
0855	9.20	-124.3	7.31	1268	0.27	8.78	6.3	200	

SAMPLE TESTING INFORMATION **Sample time:** 0855

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 3 gallons

Tubing Volume: 0.1 gallons

Notes:

Could not sample at midpoint of screen due to lack of water in well. Collected sample at 11 ft. bags.

File No. 33554.01 | Well ID: RCA-34
Project 642 Allens Ave | Sample Date: 3/20/2018
Location City: Providence State: RI | Sampler's name: CL / RH / EN
Weather: Cloudy 40's

WATER LEVEL OBSERVATIONS measurement date/time: 03/20/18 - 1515

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	12.90	Standing water in well (feet)	4.18
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	8.72	Sample Depth (feet bgs)	-
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	13 to 18	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [ ] yes [X] no **Well ID** [ ] yes [X] no
lock [X] yes [ ] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1519 Stop time: -

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1520	12.59	109.6	8.95	45/34	1614	8.62	27.34	250	Well went dry
1530	-	-	-	-	-	-	-	-	

SAMPLE TESTING INFORMATION **Sample time:** -

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 1 gallons
Tubing Volume: 0.1 gallons

Notes: Well went dry at 1530. After 1hr only 0.4ft of water in well. Unable to sample.

File No.	33554.01	Well ID:	RCA-36
Project	642 Allens Ave	Sample Date:	3/19/2018
Location	City: Providence State: RI	Sampler's name:	RH / CL / EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 03/19/18 - 1344

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	13.30	Standing water in well (feet)	2.4
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	10.90	Sample Depth (feet bgs)	13
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	5 to 15	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [ ] yes [X] no **Well ID** [ ] yes [X] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI 6920 No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1355 Stop time: 1546

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1400	11.00	83.7	6.41	8459/5.600	3.98	7.44	39.5	200	
1405	11.03	69.8	6.37	8539/5.651	1.47	7.29	29.2	200	
1450	11.76	23.5	6.31	36504/23.62	2.35	7.10	2.2	200	
1500	11.51	44.7	6.29	43876/29.02	2.70	7.05	11.1	200	
1540	11.60	81.6	6.34	54621/36.11	3.07	6.85	0.9	200	
1543	11.59	48.8	6.35	55544/36.25	3.05	6.88	1.4	200	
1546	11.61	47.8	6.36	55869/36.72	3.00	6.87	2.0	200	

SAMPLE TESTING INFORMATION **Sample time:** 1546

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 4 gallons

Tubing Volume: 0.1 gallons

Notes: Could not sample at middle of screen due to lack of water ater in wel Collected sample at 13 ft. bags.

File No. 33554.01 | Well ID: VHB-1
Project 642 Allens Ave | Sample Date: 3/21/2018
Location City: Providence State: RI | Sampler's name: EN
Weather: Cloudy 40's

WATER LEVEL OBSERVATIONS measurement date/time: 3/24/18 - 1100

Point of measurement: PVC Riser [X] Casing [ ] Ground [ ]

Total well depth (feet)	11.37	Standing water in well (feet)	8.23
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	3.14	Sample Depth (feet bgs)	7
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	2 to 12	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [X] yes [ ] no
lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 1110 Stop time: 1154

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
1121	3.55	1.3	6.27	4361	5.18	9.27	59.5	200	
1125	3.59	8.7	6.23	4283	4.84	9.29	42.7	200	
1140	3.52	11.5	6.24	4175	4.61	9.19	43.0	200	
1146	3.48	12.4	6.25	4066	4.13	8.83	43.5	200	
1154	3.42	12.9	6.26	3995	3.98	8.80	37.2	200	

SAMPLE TESTING INFORMATION **Sample time:** 1154

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity Clear

Purge Volume: 3 gallons
Tubing Volume: 0.1 gallons

Notes:

File No.	33554.01	Well ID:	VHB-20
Project	642 Allens Ave	Sample Date:	3/21/2018
Location	City: Providence State: RI	Sampler's name:	RH / EN
Weather:	Cloudy 40's		

WATER LEVEL OBSERVATIONS measurement date/time: 03/21/18 - 0823

Point of measurement	PVC Riser [X] Casing [ ] Ground [ ]		
Total well depth (feet)	17.50	Standing water in well (feet)	9.71
Depth to LNAPL (feet)	-	Well Diamter (in.)	2
Depth to water (feet)	7.79	Sample Depth (feet bgs)	11
Depth to DNAPL (feet)	-	Standpipe TPVC to Ground (feet)	-
Well Screen (feet bgs)	6 to 16	Roadbox TPVC to Ground (feet)	-

Well Condition: **Protective casing** [ ] poor [X] good **Expansion cap** [X] yes [ ] no **Well ID** [X] yes [ ] no

lock [ ] yes [X] no **Concrete Collar** [X] yes [ ] no **Well** [ ] poor [X] good

EQUIPMENT

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

Pump Type: geopump No. 2

Meter Type: YSI No. 2 **Flow Thru Cell Vol (mL):** 300

INSTRUMENT MEASUREMENTS: Start time: 0827 Stop time: 0953

Time	Depth to water (ft) (drawdown <0.3 or stable)	ORP (mV) (±10)	pH (s.u.) (±0.1)	Spec. Cond (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rds <0.5)	Temp. (°C) (±3%)	Turbidity (ntu) (±10% or <5 ntu)	Flow (mL/min) (<500)	Notes
0833	8.20	264.4	6.16	725	5.31	7.58	64.9	200	
0921	8.20	193.2	6.03	879	2.45	7.11	7.8	200	
0934	8.05	216.2	5.91	1103	1.82	7.05	5.2	200	
0943	8.04	227.2	5.93	1098	1.63	7.10	7.2	200	
0950	8.04	228.4	5.94	1086	1.56	7.12	7.2	200	
0953	8.04	228.1	5.95	1092	1.52	7.10	7.2	200	

SAMPLE TESTING INFORMATION **Sample time:** 0953

Analysis	Method	No. bottles	Bottle type	Volume	Preservation	Handling
VOC	8260	3	VOA	40 ml	HCL	on ice

SAMPLE OBSERVATIONS

Color none Odor none Clarity clear

Purge Volume: 8.5 gallons

Tubing Volume: 0.1 gallons

Notes:

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	1 of 3
Project:	642 Allens Avenue	Date:	3/20/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 04C2280AE

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	971
pH (s.u.):	Instrument and Number:	YSI	Reading:	4.11 / 7.07 / 10.00
DO (%):	Instrument and Number:	YSI	Reading:	111.8
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	237.2
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	-1.2 / 117.2

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.00
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	100
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	238
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	2 of 3
Project:	642 Allens Avenue	Date:	3/20/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 02J10124AD

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	1053
pH (s.u.):	Instrument and Number:	YSI	Reading:	4.12 / 6.71 / 10.25
DO (%):	Instrument and Number:	YSI	Reading:	108.6
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	214.1
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	0.8 / 125.5

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.02
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	100
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	238.00
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	3 of 3
Project:	642 Allens Avenue	Date:	3/20/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 098B1377AB

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	1033
pH (s.u.):	Instrument and Number:	YSI	Reading:	4.03 / 6.99 / 10.06
DO (%):	Instrument and Number:	YSI	Reading:	108.1
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	220.5
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	0.4 / 121.0

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.00
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	100
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	238
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	1 of 3
Project:	642 Allens Avenue	Date:	3/21/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 04C2280AE

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	971
pH (s.u.):	Instrument and Number:	YSI	Reading:	4.04 / 7.00 / 10.04
DO (%):	Instrument and Number:	YSI	Reading:	99.1
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	237.6
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	0.5 / 119.6

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.00
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	99.3
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	238
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	2 of 3
Project:	642 Allens Avenue	Date:	3/21/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 02J10124AD

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	986
pH (s.u.):	Instrument and Number:	YSI	Reading:	3.99 / 6.92 / 10.02
DO (%):	Instrument and Number:	YSI	Reading:	99.5
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	219.5
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	1.2 / 128.4

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.02
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	99.9
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	237.50
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

LOW FLOW CALIBRATION SHEET

File No.	33554.01	Page:	3 of 3
Project:	642 Allens Avenue	Date:	3/21/2018
Location:	City: Providence State: RI		

LOW FLOW CALIBRATION: YSI 6820 - SN 098B1377AB

Intial Reading:

Specific Conductance:	Instrument and Number:	YSI	Reading:	976
pH (s.u.):	Instrument and Number:	YSI	Reading:	4.02 / 6.95 / 9.93
DO (%):	Instrument and Number:	YSI	Reading:	98.8
ORP (mvolts:)	Instrument and Number:	YSI	Reading:	239.0
Turbidity (NTU):	Instrument and Number:	Lamotte	Reading:	0.2 / 123.1

Calibration:

Specific Conductance:	Instrument and Number:	YSI	Standard Solution:	1000	Reading:	1000
pH (s.u.):	Instrument and Number:	YSI	Standard Solution:	4 / 7 / 10	Reading:	4.00 / 7.00 / 10.00
DO (%):	Instrument and Number:	YSI	Standard Solution:	100%	Reading:	100
ORP (mvolts:)	Instrument and Number:	YSI	Standard Solution:	237.5	Reading:	239.5
Turbidity (NTU):	Instrument and Number:	Lamotte	Standard Solution:	0 / 126	Reading:	0.0 / 126.0

APPENDIX C

Investigation Derived Waste (IDW) Shipping Records

RI 1801329071-001 SC PPW 10/10/2017 Truck #621134

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	1	(800) 483-3718	010906624 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

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 Environmental Services, Inc.
2900 Rockefeller Avenue
Cleveland, OH 44115
Facility's Phone: (216) 429-2402
U.S. EPA ID Number: OHD000724153

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON DOT REGULATED MATERIAL, (PURGEWATER)	001	DM	40	G	R015		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.1267818IR
1 x 55

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/Offeror's Printed/Typed Name: JM DeWolf #1215 Agent for Narragansett Electric
Signature: JM DeWolf #1215 Agent for TNEC
Month: 03 Day: 23 Year: 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Greg Lunn
Signature: Greg Lunn
Month: 03 Day: 23 Year: 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H070			

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: Frank G. Hegerty
Signature
Month: 04 Day: 17 Year: 18

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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

Truck #621134

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) RI 1801329071-001 SC PPW 10/10/2017 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	1	(800) 483-3718	010906625 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (BENZENE), 9, PG III	001	DM	45	P	D018		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 057365RI ERG#171
1 x 55

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/Offeror's Printed/Typed Name: Jim Dewolf #1215 AGENT FOR NARRAGANSETT ELECTRIC
Signature: Jim Dewolf #1215 AGENT FOR TNEC
Month: 03 Day: 23 Year: 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Greg Lunn
Signature: Greg Lunn
Month: 03 Day: 23 Year: 18

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040			

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: Michelle Blackwell
Signature: Michelle Blackwell
Month: 4 Day: 17 Year: 18

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Mar 22, 2018

MANIFEST INFORMATION

Generator : Narragansett Electric Company

Address: 642 Allens Avenue
Providence,RI 02905

EPA ID #: R I D 0 0 7 9 1 8 7 7 4

Manifest Tracking Info.

010906625FLE

Sales Order No: 1801329071-001

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	U57365RI	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D018	NONE

Certification

Applies to Manifest Line Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268. 1.

Waste analysis data, where available, is attached.

Signature : [signature] Print Name [signature]

Title : AGENT FOR JNEC Date : 3-23-18

Truck# 80178

RI 1803885176-001 SC PPW 7/12/2018

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: RID007918774
2. Page 1 of: 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 012509628 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781)907-3647 ATTN:Susan Brochu

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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON DOT REGULATED MATERIAL, (PURGEWATER, OIL)	2	DM	75	G	R015		
	2. ~~NON DOT REGULATED MATERIAL, (OILY DEBRIS)~~	1	DM			~~R015~~		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.126781HAPLR1
2.R40179RIR Qx55
Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf

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/Offeror's Printed/Typed Name: #1315 AGENT FOR JIM JEWOLT NATIONAL GRID, USA.
Signature: #1315 AGENT FOR NTL Grid
Month 8 Day 10 Year 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joshua Malanga
Signature: Joshua Malanga
Month 8 Day 10 Year 18
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040	H040		

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: Constance Leyh
Signature: Constance Leyh
Month 9 Day 13 Year 18

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 1804515678-001 SC PPW 7/12/2018

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	1	(800) 483-3718	012509710 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

Generator's Site Address (if different than mailing address)
642 Aliens 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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL, (PURGEWATER, OIL)	2	DM	55	G	R015
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. T26781MAPLRI

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf

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/Offeror's Printed/Typed Name: Agent for Narragansett Electric; Joshua Malana
Signature: Agent for Narragansett Electric; Joshua Malana
Month 9 Day 16 Year 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joshua Malana
Signature: Joshua Malana
Month 9 Day 16 Year 18

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040			

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: Amanda Hodge
Signature: Amanda Hodge
Month 9 Day 21 Year 18

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.

TRK#621134

RI 1805041258-001 SC PPW 7/12/2018

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	1	(800) 483-3718	012509766 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN:Susan Brochu

Generator's Site Address (if different than mailing address)
642 Allens Avenue
Providence, RI 02905

6. Transporter 1 Company Name	U.S. EPA ID Number
Clean Harbors Environmental Services, Inc.	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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL, (PURGEWATER, OIL)	001	DM	20	G.	R015
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1x55 drum metal

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf

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/Offeror's Printed/Typed Name: On behalf of Narragansett Electric Co. Cons Bonilla #082972 Signature: [signature] Month 10 Day 13 Year 2018

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Constanza Bonilla #082972 Signature: [signature] Month 10 Day 13 Year 2018
Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040			

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: Constance Lull Signature: Constance Lull Month 10 Day 26 Year 18

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.

Truck # 621134

Please print or type. RI 1805436201-001 SC PPW 7/12/2018 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	1	(800) 483-3718	012509825 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

Generator's Site Address (if different than mailing address)
642 Aliens 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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL, (PURGEWATER, OIL)	001	DM	30	G.	R015
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.T26781NAPLRI 1x55

~~Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf.~~

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/Offeror's Printed/Typed Name: #1215 AGENT FOR Jim Dewolf Narragansett Electric
Signature: 4015 AGENT FOR INEC
Month: 10 Day: 25 Year: 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Gustavo Bonilla #087472
Signature:
Month: 10 Day: 25 Year: 2018

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040			

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: Linda Goodwin
Signature: Linda Goodwin
Month: 1 Day: 19 Year: 18

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.

Truck #621134

Please print or type. RI 1803625970-005 SC PPW 7/12/2018 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
RID007918774	2 of 1	(800) 483-3718	012509946 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

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: TRI STATE MOTOR TRANSIT CO
U.S. EPA ID Number: MODO95038998

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

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (BENZENE), 9, PG III	001	DM	75	P	D018		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.US7365RI ERG#171
1 X 55

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf.

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/Offeror's Printed/Typed Name: JIM DEWOLF #235 AGENT FOR NARRAGANSETT ELECTRIC
Signature: #235 Agent for NEC
Month: 12 Day: 07 Year: 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Greg Lunn
Signature: Greg Lunn
Month: 12 Day: 07 Year: 18

Transporter 2 Printed/Typed Name: Robert Miri
Signature: Robert Miri
Month: 12 Day: 12 Year: 18

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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.	2.	3.	4.
H040			

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: Michelle Blackwell
Signature: Michelle Blackwell
Month: 12 Day: 15 Year: 18

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.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: RID 007918 774

22. Page: 2/2

23. Manifest Tracking Number: 012509946 FLE

24. Generator's Name: Narragansett Electric Company

25. Transporter 3 Company Name: Clean Harbors Environmental Services Inc.

U.S. EPA ID Number: MAD039322250

26. Transporter _____ Company Name

U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
	TPO							

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name: Sheila Taylor (Agent for CHES) Signature: Sheila Taylor Month: 12 Day: 14 Year: 18

TRANSPORTER

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

0 9 7

CleanHarbors
ENVIRONMENTAL SERVICES®

Land Disposal Restriction Notification Form

Printed Date :Dec 07, 2018

MANIFEST INFORMATION

Generator : Narragansett Electric Company

Address: 642 Allens Avenue
Providence,RI 02905

EPA ID #: R I D 0 0 7 9 1 8 7 7 4

Manifest Tracking Info.

012509946FLE

Sales Order No: 1803625970-005

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	U57365RI	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D018	NONE

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : Agent for TNEC

Print Name Greg Lunn Agent for TNEC

Title : Driver

Date : 12-7-18

APPENDIX D

Laboratory Reports

CERTIFICATE OF ANALYSIS

Sophia Narkiewicz
GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

RE: 642 Allens Ave (03.0033554)
ESS Laboratory Work Order Number: 1803460

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 5:36 pm, Mar 28, 2018

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: 1803460

SAMPLE RECEIPT

The following samples were received on March 21, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1803460-01	GZA-201	Ground Water	8260B
1803460-02	GZA-301D	Ground Water	8260B
1803460-03	GZA-304D	Ground Water	8260B
1803460-04	GZA-309D	Ground Water	8260B
1803460-05	GZA-319D	Ground Water	8260B
1803460-06	RCA-1	Ground Water	8260B
1803460-07	RCA-12R	Ground Water	8260B
1803460-08	RCA-15	Ground Water	8260B
1803460-09	RCA-22	Ground Water	8260B
1803460-10	RCA-36	Ground Water	8260B
1803460-11	VHB-1	Ground Water	8260B
1803460-12	VHB-20	Ground Water	8260B
1803460-13	BD32118	Ground Water	8260B
1803460-14	Trip Blank	Aqueous	8260B
1803460-15	Trip Blank	Aqueous	8260B

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

PROJECT NARRATIVE

8260B Volatile Organic Compounds

C8C0361-CCV1	**Continuing Calibration %Diff/Drift is above control limit (CD+).**
	Chloromethane (35% @ 30%)
CC82625-BS1	**Blank Spike recovery is above upper control limit (B+).**
	Chloromethane (147% @ 70-130%)
CC82625-BSD1	**Blank Spike recovery is above upper control limit (B+).**
	Chloromethane (141% @ 70-130%)
CC82625-BSD1	**Blank Spike recovery is below lower control limit (B-).**
	trans-1,3-Dichloropropene (69% @ 70-130%)

No other 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: 1803460

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 / 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
5035 - 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: GZA-201
Date Sampled: 03/20/18 16:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-01
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	03/23/18 17:57	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2,4-Trimethylbenzene	**0.0017** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 17:57	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 17:57	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 17:57	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-201
Date Sampled: 03/20/18 16:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-01
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	03/23/18 17:57	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Isopropylbenzene	**0.0073** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Naphthalene	**0.0084** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
n-Butylbenzene	**0.0034** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
n-Propylbenzene	**0.0043** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
sec-Butylbenzene	**0.0041** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-201
Date Sampled: 03/20/18 16:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-01
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	03/23/18 17:57	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Xylene O	**0.0014** (0.0010)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 17:57	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 17:57		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*95 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-301D
Date Sampled: 03/21/18 12:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-02
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	03/23/18 14:33	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 14:33	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 14:33	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 14:33	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-301D
Date Sampled: 03/21/18 12:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-02
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	03/23/18 14:33	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
cis-1,2-Dichloroethene	**0.0012** (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Naphthalene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-301D
Date Sampled: 03/21/18 12:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-02
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	03/23/18 14:33	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Vinyl Chloride	**0.0014** (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 14:33	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 14:33		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-304D
Date Sampled: 03/21/18 11:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-03
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	03/23/18 14:59	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 14:59	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 14:59	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 14:59	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-304D
Date Sampled: 03/21/18 11:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-03
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	03/23/18 14:59	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Naphthalene	**0.0023** (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-304D
Date Sampled: 03/21/18 11:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-03
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	03/23/18 14:59	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 14:59	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 14:59		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*88 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*103 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-309D
Date Sampled: 03/21/18 11:18
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-04
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	03/23/18 15:24	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 15:24	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 15:24	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 15:24	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-309D
Date Sampled: 03/21/18 11:18
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-04
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	03/23/18 15:24	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Naphthalene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-309D
Date Sampled: 03/21/18 11:18
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-04
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	03/23/18 15:24	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 15:24	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 15:24		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-319D
Date Sampled: 03/21/18 09:27
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-05
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	03/23/18 18:23	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 18:23	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 18:23	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 18:23	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Benzene	**0.0056** (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-319D
Date Sampled: 03/21/18 09:27
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-05
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	03/23/18 18:23	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Isopropylbenzene	**0.0017** (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Naphthalene	**0.0013** (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZA-319D
Date Sampled: 03/21/18 09:27
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-05
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	03/23/18 18:23	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 18:23	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 18:23		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*98 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 03/21/18 12:06
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-06
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	03/23/18 17:32	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 17:32	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 17:32	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 17:32	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Benzene	**0.0028** (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 03/21/18 12:06
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-06
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	03/23/18 17:32	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
cis-1,2-Dichloroethene	**0.0010** (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Naphthalene	**0.0141** (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 03/21/18 12:06
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-06
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	03/23/18 17:32	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Vinyl Chloride	**0.0028** (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 17:32	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 17:32		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*96 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 03/21/18 13:08
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-07
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	03/23/18 15:50	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 15:50	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 15:50	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 15:50	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 03/21/18 13:08
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-07
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	03/23/18 15:50	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
cis-1,2-Dichloroethene	**0.0024** (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Naphthalene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 03/21/18 13:08
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-07
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	03/23/18 15:50	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Trichloroethene	**0.0026** (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 15:50	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 15:50		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 03/21/18 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-08
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	03/23/18 16:15	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 16:15	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 16:15	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 16:15	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 03/21/18 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-08
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	03/23/18 16:15	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Naphthalene	**0.0024** (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 03/21/18 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-08
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	03/23/18 16:15	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 16:15	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 16:15		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*88 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 03/21/18 08:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-09
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	03/23/18 18:49	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2,4-Trimethylbenzene	**0.0059** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 18:49	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 18:49	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 18:49	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Benzene	**1.08** (0.100)		8260B		100	03/26/18 14:26	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 03/21/18 08:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-09
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	03/23/18 18:49	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Ethylbenzene	**0.0458** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Isopropylbenzene	**0.0427** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Naphthalene	**0.418** (0.100)		8260B		100	03/26/18 14:26	C8C0336	CC82325
n-Butylbenzene	**0.0044** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
n-Propylbenzene	**0.0129** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
sec-Butylbenzene	**0.0025** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 03/21/18 08:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-09
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	03/23/18 18:49	C8C0336	CC82325
Toluene	**0.0012** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Xylene O	**0.0160** (0.0010)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Xylene P,M	**0.0034** (0.0020)		8260B		1	03/23/18 18:49	C8C0336	CC82325
Xylenes (Total)	**0.0194** (0.0020)		8260B		1	03/23/18 18:49		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*93 %*		*70-130*
Surrogate: Dibromofluoromethane	*91 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 03/20/18 15:46
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-10
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	03/23/18 17:06	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2,4-Trimethylbenzene	**0.0054** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 17:06	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 17:06	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 17:06	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Benzene	**0.0359** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 03/20/18 15:46
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-10
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	03/23/18 17:06	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Ethylbenzene	**0.0046** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Isopropylbenzene	**0.0022** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Naphthalene	**0.0042** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
n-Propylbenzene	**0.0014** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 03/20/18 15:46
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-10
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	03/23/18 17:06	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Xylene O	**0.0023** (0.0010)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 17:06	C8C0336	CC82325
Xylenes (Total)	**0.0023** (0.0020)		8260B		1	03/23/18 17:06		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*90 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 03/21/18 11:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-11
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	03/26/18 13:35	C8C0361	CC82625
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/26/18 13:35	C8C0361	CC82625
1-Chlorohexane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
2-Butanone	ND (0.0100)		8260B		1	03/26/18 13:35	C8C0361	CC82625
2-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
2-Hexanone	ND (0.0100)		8260B		1	03/26/18 13:35	C8C0361	CC82625
4-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Acetone	ND (0.0100)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Benzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Bromobenzene	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 03/21/18 11:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-11
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	03/26/18 13:35	C8C0361	CC82625
Bromodichloromethane	ND (0.0006)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Bromoform	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Bromomethane	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Carbon Disulfide	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Chlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Chloroethane	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Chloroform	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Chloromethane	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Dibromochloromethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Dibromomethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Diethyl Ether	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Di-isopropyl ether	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Ethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Hexachloroethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Isopropylbenzene	**0.0061** (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Methylene Chloride	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Naphthalene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
n-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
n-Propylbenzene	**0.0020** (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
sec-Butylbenzene	**0.0021** (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Styrene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
tert-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Tetrachloroethene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 03/21/18 11:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-11
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	03/26/18 13:35	C8C0361	CC82625
Toluene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Trichloroethene	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Vinyl Acetate	ND (0.0050)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Vinyl Chloride	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Xylene O	ND (0.0010)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Xylene P,M	ND (0.0020)		8260B		1	03/26/18 13:35	C8C0361	CC82625
Xylenes (Total)	ND (0.0020)		8260B		1	03/26/18 13:35		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*85 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-20
Date Sampled: 03/21/18 09:53
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-12
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	03/23/18 16:41	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 16:41	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 16:41	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 16:41	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-20
Date Sampled: 03/21/18 09:53
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-12
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	03/23/18 16:41	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Naphthalene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-20
Date Sampled: 03/21/18 09:53
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-12
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	03/23/18 16:41	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 16:41	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 16:41		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*86 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD32118
Date Sampled: 03/21/18 08:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-13
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	03/26/18 14:01	C8C0361	CC82625
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/26/18 14:01	C8C0361	CC82625
1-Chlorohexane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
2-Butanone	ND (0.0100)		8260B		1	03/26/18 14:01	C8C0361	CC82625
2-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
2-Hexanone	ND (0.0100)		8260B		1	03/26/18 14:01	C8C0361	CC82625
4-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Acetone	ND (0.0100)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Benzene	**0.0050** (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Bromobenzene	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD32118
Date Sampled: 03/21/18 08:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-13
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	03/26/18 14:01	C8C0361	CC82625
Bromodichloromethane	ND (0.0006)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Bromoform	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Bromomethane	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Carbon Disulfide	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Chlorobenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Chloroethane	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Chloroform	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Chloromethane	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Dibromochloromethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Dibromomethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Diethyl Ether	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Di-isopropyl ether	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Ethylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Hexachloroethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Isopropylbenzene	**0.0016** (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Methylene Chloride	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Naphthalene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
n-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
n-Propylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
sec-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Styrene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
tert-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Tetrachloroethene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD32118
Date Sampled: 03/21/18 08:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-13
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	03/26/18 14:01	C8C0361	CC82625
Toluene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Trichloroethene	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Vinyl Acetate	ND (0.0050)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Vinyl Chloride	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Xylene O	ND (0.0010)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Xylene P,M	ND (0.0020)		8260B		1	03/26/18 14:01	C8C0361	CC82625
Xylenes (Total)	ND (0.0020)		8260B		1	03/26/18 14:01		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*84 %*		*70-130*
Surrogate: Dibromofluoromethane	*89 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/20/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-14
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	03/26/18 13:10	C8C0361	CC82625
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/26/18 13:10	C8C0361	CC82625
1-Chlorohexane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
2-Butanone	ND (0.0100)		8260B		1	03/26/18 13:10	C8C0361	CC82625
2-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
2-Hexanone	ND (0.0100)		8260B		1	03/26/18 13:10	C8C0361	CC82625
4-Chlorotoluene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Acetone	ND (0.0100)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Benzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Bromobenzene	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/20/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-14
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	03/26/18 13:10	C8C0361	CC82625
Bromodichloromethane	ND (0.0006)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Bromoform	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Bromomethane	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Carbon Disulfide	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Chlorobenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Chloroethane	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Chloroform	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Chloromethane	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Dibromochloromethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Dibromomethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Diethyl Ether	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Di-isopropyl ether	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Ethylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Hexachloroethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Isopropylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Methylene Chloride	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Naphthalene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
n-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
n-Propylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
sec-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Styrene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
tert-Butylbenzene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Tetrachloroethene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/20/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-14
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	03/26/18 13:10	C8C0361	CC82625
Toluene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Trichloroethene	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Vinyl Acetate	ND (0.0050)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Vinyl Chloride	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Xylene O	ND (0.0010)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Xylene P,M	ND (0.0020)		8260B		1	03/26/18 13:10	C8C0361	CC82625
Xylenes (Total)	ND (0.0020)		8260B		1	03/26/18 13:10		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*84 %*		*70-130*
Surrogate: Dibromofluoromethane	*91 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/21/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-15
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	03/23/18 13:17	C8C0336	CC82325
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,1-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,1-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,1-Dichloropropene	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2-Dibromoethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2-Dichloroethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,3-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1,4-Dioxane - Screen	ND (0.500)		8260B		1	03/23/18 13:17	C8C0336	CC82325
1-Chlorohexane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
2,2-Dichloropropane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
2-Butanone	ND (0.0100)		8260B		1	03/23/18 13:17	C8C0336	CC82325
2-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
2-Hexanone	ND (0.0100)		8260B		1	03/23/18 13:17	C8C0336	CC82325
4-Chlorotoluene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
4-Isopropyltoluene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Acetone	ND (0.0100)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Benzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Bromobenzene	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/21/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-15
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	03/23/18 13:17	C8C0336	CC82325
Bromodichloromethane	ND (0.0006)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Bromoform	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Bromomethane	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Carbon Disulfide	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Carbon Tetrachloride	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Chlorobenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Chloroethane	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Chloroform	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Chloromethane	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Dibromochloromethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Dibromomethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Dichlorodifluoromethane	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Diethyl Ether	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Di-isopropyl ether	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Ethylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Hexachlorobutadiene	ND (0.0006)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Hexachloroethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Isopropylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Methylene Chloride	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Naphthalene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
n-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
n-Propylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
sec-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Styrene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
tert-Butylbenzene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Tetrachloroethene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: Trip Blank
Date Sampled: 03/21/18 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1803460
ESS Laboratory Sample ID: 1803460-15
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	03/23/18 13:17	C8C0336	CC82325
Toluene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Trichloroethene	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Trichlorofluoromethane	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Vinyl Acetate	ND (0.0050)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Vinyl Chloride	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Xylene O	ND (0.0010)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Xylene P,M	ND (0.0020)		8260B		1	03/23/18 13:17	C8C0336	CC82325
Xylenes (Total)	ND (0.0020)		8260B		1	03/23/18 13:17		[CALC]

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 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: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 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							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0255*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0220*		mg/L	*0.02500*		*88*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0243*		mg/L	*0.02500*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0251*		mg/L	*0.02500*		*100*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	8.71		ug/L	10.00		87	70-130			
1,1,1-Trichloroethane	9.99		ug/L	10.00		100	70-130			
1,1,2,2-Tetrachloroethane	10.3		ug/L	10.00		103	70-130			
1,1,2-Trichloroethane	10.8		ug/L	10.00		108	70-130			
1,1-Dichloroethane	10.4		ug/L	10.00		104	70-130			
1,1-Dichloroethene	10.1		ug/L	10.00		101	70-130			
1,1-Dichloropropene	10.7		ug/L	10.00		107	70-130			
1,2,3-Trichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,2,3-Trichloropropane	9.47		ug/L	10.00		95	70-130			

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 5030B										
1,2,4-Trichlorobenzene	10.3		ug/L	10.00		103	70-130			
1,2,4-Trimethylbenzene	10.1		ug/L	10.00		101	70-130			
1,2-Dibromo-3-Chloropropane	8.78		ug/L	10.00		88	70-130			
1,2-Dibromoethane	10.2		ug/L	10.00		102	70-130			
1,2-Dichlorobenzene	10.2		ug/L	10.00		102	70-130			
1,2-Dichloroethane	11.2		ug/L	10.00		112	70-130			
1,2-Dichloropropane	10.6		ug/L	10.00		106	70-130			
1,3,5-Trimethylbenzene	10.1		ug/L	10.00		101	70-130			
1,3-Dichlorobenzene	10.0		ug/L	10.00		100	70-130			
1,3-Dichloropropane	10.9		ug/L	10.00		109	70-130			
1,4-Dichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,4-Dioxane - Screen	212		ug/L	200.0		106	0-332			
1-Chlorohexane	9.04		ug/L	10.00		90	70-130			
2,2-Dichloropropane	8.72		ug/L	10.00		87	70-130			
2-Butanone	57.2		ug/L	50.00		114	70-130			
2-Chlorotoluene	10.2		ug/L	10.00		102	70-130			
2-Hexanone	55.2		ug/L	50.00		110	70-130			
4-Chlorotoluene	10.2		ug/L	10.00		102	70-130			
4-Isopropyltoluene	9.66		ug/L	10.00		97	70-130			
4-Methyl-2-Pentanone	54.0		ug/L	50.00		108	70-130			
Acetone	49.5		ug/L	50.00		99	70-130			
Benzene	10.6		ug/L	10.00		106	70-130			
Bromobenzene	9.91		ug/L	10.00		99	70-130			
Bromochloromethane	10.4		ug/L	10.00		104	70-130			
Bromodichloromethane	9.84		ug/L	10.00		98	70-130			
Bromoform	8.55		ug/L	10.00		86	70-130			
Bromomethane	12.1		ug/L	10.00		121	70-130			
Carbon Disulfide	10.2		ug/L	10.00		102	70-130			
Carbon Tetrachloride	8.97		ug/L	10.00		90	70-130			
Chlorobenzene	10.2		ug/L	10.00		102	70-130			
Chloroethane	11.4		ug/L	10.00		114	70-130			
Chloroform	11.0		ug/L	10.00		110	70-130			
Chloromethane	12.5		ug/L	10.00		125	70-130			
cis-1,2-Dichloroethene	10.4		ug/L	10.00		104	70-130			
cis-1,3-Dichloropropene	9.98		ug/L	10.00		100	70-130			
Dibromochloromethane	8.14		ug/L	10.00		81	70-130			
Dibromomethane	10.5		ug/L	10.00		105	70-130			
Dichlorodifluoromethane	11.3		ug/L	10.00		113	70-130			
Diethyl Ether	10.3		ug/L	10.00		103	70-130			
Di-isopropyl ether	10.9		ug/L	10.00		109	70-130			
Ethyl tertiary-butyl ether	9.98		ug/L	10.00		100	70-130			
Ethylbenzene	9.89		ug/L	10.00		99	70-130			
Hexachlorobutadiene	9.96		ug/L	10.00		100	70-130			
Hexachloroethane	7.79		ug/L	10.00		78	70-130			
Isopropylbenzene	9.60		ug/L	10.00		96	70-130			

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 5030B										
Methyl tert-Butyl Ether	9.86		ug/L	10.00		99	70-130			
Methylene Chloride	10.7		ug/L	10.00		107	70-130			
Naphthalene	11.0		ug/L	10.00		110	70-130			
n-Butylbenzene	9.64		ug/L	10.00		96	70-130			
n-Propylbenzene	10.1		ug/L	10.00		101	70-130			
sec-Butylbenzene	9.94		ug/L	10.00		99	70-130			
Styrene	9.58		ug/L	10.00		96	70-130			
tert-Butylbenzene	9.86		ug/L	10.00		99	70-130			
Tertiary-amyl methyl ether	9.23		ug/L	10.00		92	70-130			
Tetrachloroethene	8.77		ug/L	10.00		88	70-130			
Tetrahydrofuran	10.7		ug/L	10.00		107	70-130			
Toluene	10.5		ug/L	10.00		105	70-130			
trans-1,2-Dichloroethene	10.8		ug/L	10.00		108	70-130			
trans-1,3-Dichloropropene	7.49		ug/L	10.00		75	70-130			
Trichloroethene	10.5		ug/L	10.00		105	70-130			
Trichlorofluoromethane	10.4		ug/L	10.00		104	70-130			
Vinyl Acetate	9.47		ug/L	10.00		95	70-130			
Vinyl Chloride	11.5		ug/L	10.00		115	70-130			
Xylene O	10.1		ug/L	10.00		101	70-130			
Xylene P,M	19.8		ug/L	20.00		99	70-130			
Xylenes (Total)	29.9		mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0277*		mg/L	*0.02500*		*111*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0236*		mg/L	*0.02500*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0274*		mg/L	*0.02500*		*109*	*70-130*			
Surrogate: Toluene-d8	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	7.91		ug/L	10.00		79	70-130	10	25	
1,1,1-Trichloroethane	10.0		ug/L	10.00		100	70-130	0.5	25	
1,1,2,2-Tetrachloroethane	9.92		ug/L	10.00		99	70-130	4	25	
1,1,2-Trichloroethane	10.3		ug/L	10.00		103	70-130	5	25	
1,1-Dichloroethane	10.2		ug/L	10.00		102	70-130	2	25	
1,1-Dichloroethene	10.1		ug/L	10.00		101	70-130	0.4	25	
1,1-Dichloropropene	10.5		ug/L	10.00		105	70-130	1	25	
1,2,3-Trichlorobenzene	10.0		ug/L	10.00		100	70-130	4	25	
1,2,3-Trichloropropane	9.06		ug/L	10.00		91	70-130	4	25	
1,2,4-Trichlorobenzene	10.0		ug/L	10.00		100	70-130	2	25	
1,2,4-Trimethylbenzene	9.99		ug/L	10.00		100	70-130	0.7	25	
1,2-Dibromo-3-Chloropropane	8.03		ug/L	10.00		80	70-130	9	25	
1,2-Dibromoethane	9.95		ug/L	10.00		100	70-130	3	25	
1,2-Dichlorobenzene	10.2		ug/L	10.00		102	70-130	0.3	25	
1,2-Dichloroethane	11.0		ug/L	10.00		110	70-130	1	25	
1,2-Dichloropropane	10.4		ug/L	10.00		104	70-130	2	25	
1,3,5-Trimethylbenzene	9.95		ug/L	10.00		100	70-130	2	25	
1,3-Dichlorobenzene	9.99		ug/L	10.00		100	70-130	0.1	25	
1,3-Dichloropropane	10.7		ug/L	10.00		107	70-130	2	25	

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 5030B										
1,4-Dichlorobenzene	10.3		ug/L	10.00		103	70-130	0.9	25	
1,4-Dioxane - Screen	199		ug/L	200.0		100	0-332	6	200	
1-Chlorohexane	8.84		ug/L	10.00		88	70-130	2	25	
2,2-Dichloropropane	8.51		ug/L	10.00		85	70-130	2	25	
2-Butanone	54.8		ug/L	50.00		110	70-130	4	25	
2-Chlorotoluene	10.2		ug/L	10.00		102	70-130	0.3	25	
2-Hexanone	51.7		ug/L	50.00		103	70-130	6	25	
4-Chlorotoluene	10.2		ug/L	10.00		102	70-130	0.2	25	
4-Isopropyltoluene	9.62		ug/L	10.00		96	70-130	0.4	25	
4-Methyl-2-Pentanone	50.9		ug/L	50.00		102	70-130	6	25	
Acetone	45.8		ug/L	50.00		92	70-130	8	25	
Benzene	10.4		ug/L	10.00		104	70-130	2	25	
Bromobenzene	9.99		ug/L	10.00		100	70-130	0.8	25	
Bromochloromethane	10.2		ug/L	10.00		102	70-130	2	25	
Bromodichloromethane	9.72		ug/L	10.00		97	70-130	1	25	
Bromoform	7.72		ug/L	10.00		77	70-130	10	25	
Bromomethane	11.8		ug/L	10.00		118	70-130	2	25	
Carbon Disulfide	10.1		ug/L	10.00		101	70-130	2	25	
Carbon Tetrachloride	8.88		ug/L	10.00		89	70-130	1	25	
Chlorobenzene	10.0		ug/L	10.00		100	70-130	2	25	
Chloroethane	11.4		ug/L	10.00		114	70-130	0.3	25	
Chloroform	10.6		ug/L	10.00		106	70-130	3	25	
Chloromethane	12.5		ug/L	10.00		125	70-130	0	25	
cis-1,2-Dichloroethene	10.3		ug/L	10.00		103	70-130	1	25	
cis-1,3-Dichloropropene	9.60		ug/L	10.00		96	70-130	4	25	
Dibromochloromethane	8.02		ug/L	10.00		80	70-130	1	25	
Dibromomethane	10.3		ug/L	10.00		103	70-130	2	25	
Dichlorodifluoromethane	11.2		ug/L	10.00		112	70-130	0.5	25	
Diethyl Ether	10.1		ug/L	10.00		101	70-130	2	25	
Di-isopropyl ether	10.7		ug/L	10.00		107	70-130	2	25	
Ethyl tertiary-butyl ether	9.63		ug/L	10.00		96	70-130	4	25	
Ethylbenzene	9.87		ug/L	10.00		99	70-130	0.2	25	
Hexachlorobutadiene	9.67		ug/L	10.00		97	70-130	3	25	
Hexachloroethane	7.53		ug/L	10.00		75	70-130	3	25	
Isopropylbenzene	9.62		ug/L	10.00		96	70-130	0.2	25	
Methyl tert-Butyl Ether	9.59		ug/L	10.00		96	70-130	3	25	
Methylene Chloride	10.3		ug/L	10.00		103	70-130	3	25	
Naphthalene	9.96		ug/L	10.00		100	70-130	10	25	
n-Butylbenzene	9.49		ug/L	10.00		95	70-130	2	25	
n-Propylbenzene	10.2		ug/L	10.00		102	70-130	0.3	25	
sec-Butylbenzene	9.97		ug/L	10.00		100	70-130	0.3	25	
Styrene	9.31		ug/L	10.00		93	70-130	3	25	
tert-Butylbenzene	9.79		ug/L	10.00		98	70-130	0.7	25	
Tertiary-amyl methyl ether	8.94		ug/L	10.00		89	70-130	3	25	
Tetrachloroethene	8.78		ug/L	10.00		88	70-130	0.1	25	

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82325 - 5030B										
Tetrahydrofuran	10.1		ug/L	10.00		101	70-130	6	25	
Toluene	10.3		ug/L	10.00		103	70-130	2	25	
trans-1,2-Dichloroethene	10.5		ug/L	10.00		105	70-130	3	25	
trans-1,3-Dichloropropene	7.22		ug/L	10.00		72	70-130	4	25	
Trichloroethene	10.5		ug/L	10.00		105	70-130	0.3	25	
Trichlorofluoromethane	10.4		ug/L	10.00		104	70-130	0.2	25	
Vinyl Acetate	9.32		ug/L	10.00		93	70-130	2	25	
Vinyl Chloride	11.4		ug/L	10.00		114	70-130	0.4	25	
Xylene O	10.0		ug/L	10.00		100	70-130	0.5	25	
Xylene P,M	19.8		ug/L	20.00		99	70-130	0.05	25	
Xylenes (Total)	29.9		mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0269*		mg/L	*0.02500*		*108*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0235*		mg/L	*0.02500*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0270*		mg/L	*0.02500*		*108*	*70-130*			
Surrogate: Toluene-d8	*0.0255*		mg/L	*0.02500*		*102*	*70-130*			
Batch CC82625 - 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							

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82625 - 5030B										
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							
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							

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82625 - 5030B										
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0240*		mg/L	*0.02500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0211*		mg/L	*0.02500*		*84*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0226*		mg/L	*0.02500*		*91*	*70-130*			
Surrogate: Toluene-d8	*0.0247*		mg/L	*0.02500*		*99*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	8.20		ug/L	10.00		82	70-130			
1,1,1-Trichloroethane	10.3		ug/L	10.00		103	70-130			
1,1,2,2-Tetrachloroethane	10.5		ug/L	10.00		105	70-130			
1,1,2-Trichloroethane	10.7		ug/L	10.00		107	70-130			
1,1-Dichloroethane	10.4		ug/L	10.00		104	70-130			
1,1-Dichloroethene	10.3		ug/L	10.00		103	70-130			
1,1-Dichloropropene	11.1		ug/L	10.00		111	70-130			
1,2,3-Trichlorobenzene	10.8		ug/L	10.00		108	70-130			
1,2,3-Trichloropropane	9.81		ug/L	10.00		98	70-130			
1,2,4-Trichlorobenzene	10.4		ug/L	10.00		104	70-130			
1,2,4-Trimethylbenzene	10.4		ug/L	10.00		104	70-130			
1,2-Dibromo-3-Chloropropane	8.76		ug/L	10.00		88	70-130			
1,2-Dibromoethane	10.2		ug/L	10.00		102	70-130			
1,2-Dichlorobenzene	10.7		ug/L	10.00		107	70-130			
1,2-Dichloroethane	11.3		ug/L	10.00		113	70-130			
1,2-Dichloropropane	10.8		ug/L	10.00		108	70-130			
1,3,5-Trimethylbenzene	10.3		ug/L	10.00		103	70-130			
1,3-Dichlorobenzene	10.3		ug/L	10.00		103	70-130			
1,3-Dichloropropane	11.1		ug/L	10.00		111	70-130			
1,4-Dichlorobenzene	10.6		ug/L	10.00		106	70-130			
1,4-Dioxane - Screen	214		ug/L	200.0		107	0-332			
1-Chlorohexane	9.03		ug/L	10.00		90	70-130			
2,2-Dichloropropane	9.01		ug/L	10.00		90	70-130			
2-Butanone	57.8		ug/L	50.00		116	70-130			
2-Chlorotoluene	10.6		ug/L	10.00		106	70-130			
2-Hexanone	54.8		ug/L	50.00		110	70-130			
4-Chlorotoluene	10.5		ug/L	10.00		105	70-130			
4-Isopropyltoluene	9.86		ug/L	10.00		99	70-130			
4-Methyl-2-Pentanone	54.0		ug/L	50.00		108	70-130			
Acetone	49.1		ug/L	50.00		98	70-130			
Benzene	10.7		ug/L	10.00		107	70-130			
Bromobenzene	10.4		ug/L	10.00		104	70-130			
Bromochloromethane	10.4		ug/L	10.00		104	70-130			
Bromodichloromethane	9.82		ug/L	10.00		98	70-130			
Bromoform	8.23		ug/L	10.00		82	70-130			
Bromomethane	10.2		ug/L	10.00		102	70-130			
Carbon Disulfide	10.3		ug/L	10.00		103	70-130			
Carbon Tetrachloride	9.14		ug/L	10.00		91	70-130			

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82625 - 5030B										
Chlorobenzene	10.4		ug/L	10.00		104	70-130			
Chloroethane	12.0		ug/L	10.00		120	70-130			
Chloroform	10.8		ug/L	10.00		108	70-130			
Chloromethane	14.7		ug/L	10.00		147	70-130			B+
cis-1,2-Dichloroethene	10.6		ug/L	10.00		106	70-130			
cis-1,3-Dichloropropene	10.2		ug/L	10.00		102	70-130			
Dibromochloromethane	8.36		ug/L	10.00		84	70-130			
Dibromomethane	10.5		ug/L	10.00		105	70-130			
Dichlorodifluoromethane	11.4		ug/L	10.00		114	70-130			
Diethyl Ether	10.5		ug/L	10.00		105	70-130			
Di-isopropyl ether	11.2		ug/L	10.00		112	70-130			
Ethyl tertiary-butyl ether	10.1		ug/L	10.00		101	70-130			
Ethylbenzene	10.2		ug/L	10.00		102	70-130			
Hexachlorobutadiene	10.2		ug/L	10.00		102	70-130			
Hexachloroethane	7.93		ug/L	10.00		79	70-130			
Isopropylbenzene	10.2		ug/L	10.00		102	70-130			
Methyl tert-Butyl Ether	10.0		ug/L	10.00		100	70-130			
Methylene Chloride	10.6		ug/L	10.00		106	70-130			
Naphthalene	11.0		ug/L	10.00		110	70-130			
n-Butylbenzene	10.0		ug/L	10.00		100	70-130			
n-Propylbenzene	10.5		ug/L	10.00		105	70-130			
sec-Butylbenzene	10.3		ug/L	10.00		103	70-130			
Styrene	9.64		ug/L	10.00		96	70-130			
tert-Butylbenzene	10.4		ug/L	10.00		104	70-130			
Tertiary-amyl methyl ether	9.26		ug/L	10.00		93	70-130			
Tetrachloroethene	9.12		ug/L	10.00		91	70-130			
Tetrahydrofuran	10.5		ug/L	10.00		105	70-130			
Toluene	10.7		ug/L	10.00		107	70-130			
trans-1,2-Dichloroethene	10.6		ug/L	10.00		106	70-130			
trans-1,3-Dichloropropene	7.77		ug/L	10.00		78	70-130			
Trichloroethene	10.7		ug/L	10.00		107	70-130			
Trichlorofluoromethane	10.7		ug/L	10.00		107	70-130			
Vinyl Acetate	10.0		ug/L	10.00		100	70-130			
Vinyl Chloride	11.7		ug/L	10.00		117	70-130			
Xylene O	10.4		ug/L	10.00		104	70-130			
Xylene P,M	20.4		ug/L	20.00		102	70-130			
Xylenes (Total)	30.8		mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0271*		mg/L	*0.02500*		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0234*		mg/L	*0.02500*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0269*		mg/L	*0.02500*		*108*	*70-130*			
Surrogate: Toluene-d8	*0.0254*		mg/L	*0.02500*		*102*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	7.55		ug/L	10.00		76	70-130	8	25	
1,1,1-Trichloroethane	9.36		ug/L	10.00		94	70-130	10	25	
1,1,2,2-Tetrachloroethane	9.55		ug/L	10.00		96	70-130	10	25	

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82625 - 5030B										
1,1,2-Trichloroethane	9.74		ug/L	10.00		97	70-130	10	25	
1,1-Dichloroethane	9.52		ug/L	10.00		95	70-130	9	25	
1,1-Dichloroethene	9.85		ug/L	10.00		98	70-130	5	25	
1,1-Dichloropropene	10.2		ug/L	10.00		102	70-130	9	25	
1,2,3-Trichlorobenzene	9.65		ug/L	10.00		96	70-130	12	25	
1,2,3-Trichloropropane	8.66		ug/L	10.00		87	70-130	12	25	
1,2,4-Trichlorobenzene	9.49		ug/L	10.00		95	70-130	10	25	
1,2,4-Trimethylbenzene	9.57		ug/L	10.00		96	70-130	8	25	
1,2-Dibromo-3-Chloropropane	7.28		ug/L	10.00		73	70-130	18	25	
1,2-Dibromoethane	9.22		ug/L	10.00		92	70-130	10	25	
1,2-Dichlorobenzene	9.65		ug/L	10.00		96	70-130	10	25	
1,2-Dichloroethane	10.2		ug/L	10.00		102	70-130	10	25	
1,2-Dichloropropane	9.90		ug/L	10.00		99	70-130	9	25	
1,3,5-Trimethylbenzene	9.54		ug/L	10.00		95	70-130	7	25	
1,3-Dichlorobenzene	9.60		ug/L	10.00		96	70-130	7	25	
1,3-Dichloropropane	9.94		ug/L	10.00		99	70-130	11	25	
1,4-Dichlorobenzene	9.62		ug/L	10.00		96	70-130	10	25	
1,4-Dioxane - Screen	183		ug/L	200.0		91	0-332	16	200	
1-Chlorohexane	8.31		ug/L	10.00		83	70-130	8	25	
2,2-Dichloropropane	8.05		ug/L	10.00		80	70-130	11	25	
2-Butanone	50.5		ug/L	50.00		101	70-130	13	25	
2-Chlorotoluene	9.94		ug/L	10.00		99	70-130	7	25	
2-Hexanone	47.4		ug/L	50.00		95	70-130	14	25	
4-Chlorotoluene	9.78		ug/L	10.00		98	70-130	7	25	
4-Isopropyltoluene	9.19		ug/L	10.00		92	70-130	7	25	
4-Methyl-2-Pentanone	47.7		ug/L	50.00		95	70-130	12	25	
Acetone	43.3		ug/L	50.00		87	70-130	13	25	
Benzene	9.88		ug/L	10.00		99	70-130	8	25	
Bromobenzene	9.56		ug/L	10.00		96	70-130	8	25	
Bromochloromethane	9.38		ug/L	10.00		94	70-130	10	25	
Bromodichloromethane	8.98		ug/L	10.00		90	70-130	9	25	
Bromoform	7.20		ug/L	10.00		72	70-130	13	25	
Bromomethane	9.30		ug/L	10.00		93	70-130	10	25	
Carbon Disulfide	9.44		ug/L	10.00		94	70-130	9	25	
Carbon Tetrachloride	8.44		ug/L	10.00		84	70-130	8	25	
Chlorobenzene	9.50		ug/L	10.00		95	70-130	9	25	
Chloroethane	11.1		ug/L	10.00		111	70-130	8	25	
Chloroform	9.98		ug/L	10.00		100	70-130	8	25	
Chloromethane	14.1		ug/L	10.00		141	70-130	5	25	B+
cis-1,2-Dichloroethene	9.54		ug/L	10.00		95	70-130	11	25	
cis-1,3-Dichloropropene	9.10		ug/L	10.00		91	70-130	11	25	
Dibromochloromethane	7.49		ug/L	10.00		75	70-130	11	25	
Dibromomethane	9.55		ug/L	10.00		96	70-130	10	25	
Dichlorodifluoromethane	10.6		ug/L	10.00		106	70-130	7	25	
Diethyl Ether	9.59		ug/L	10.00		96	70-130	9	25	

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CC82625 - 5030B										
Di-isopropyl ether	10.2		ug/L	10.00		102	70-130	10	25	
Ethyl tertiary-butyl ether	9.10		ug/L	10.00		91	70-130	10	25	
Ethylbenzene	9.33		ug/L	10.00		93	70-130	9	25	
Hexachlorobutadiene	9.22		ug/L	10.00		92	70-130	10	25	
Hexachloroethane	7.39		ug/L	10.00		74	70-130	7	25	
Isopropylbenzene	9.36		ug/L	10.00		94	70-130	8	25	
Methyl tert-Butyl Ether	9.05		ug/L	10.00		90	70-130	10	25	
Methylene Chloride	9.66		ug/L	10.00		97	70-130	10	25	
Naphthalene	9.44		ug/L	10.00		94	70-130	16	25	
n-Butylbenzene	9.07		ug/L	10.00		91	70-130	10	25	
n-Propylbenzene	9.77		ug/L	10.00		98	70-130	7	25	
sec-Butylbenzene	9.51		ug/L	10.00		95	70-130	8	25	
Styrene	8.69		ug/L	10.00		87	70-130	10	25	
tert-Butylbenzene	9.58		ug/L	10.00		96	70-130	8	25	
Tertiary-amyl methyl ether	8.26		ug/L	10.00		83	70-130	11	25	
Tetrachloroethene	8.20		ug/L	10.00		82	70-130	11	25	
Tetrahydrofuran	9.34		ug/L	10.00		93	70-130	12	25	
Toluene	9.77		ug/L	10.00		98	70-130	9	25	
trans-1,2-Dichloroethene	9.77		ug/L	10.00		98	70-130	8	25	
trans-1,3-Dichloropropene	6.93		ug/L	10.00		69	70-130	11	25	B-
Trichloroethene	10.2		ug/L	10.00		102	70-130	5	25	
Trichlorofluoromethane	9.84		ug/L	10.00		98	70-130	8	25	
Vinyl Acetate	8.76		ug/L	10.00		88	70-130	14	25	
Vinyl Chloride	11.0		ug/L	10.00		110	70-130	7	25	
Xylene O	9.47		ug/L	10.00		95	70-130	9	25	
Xylene P,M	18.6		ug/L	20.00		93	70-130	9	25	
Xylenes (Total)	28.1		mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0267*		mg/L	*0.02500*		*107*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0230*		mg/L	*0.02500*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0267*		mg/L	*0.02500*		*107*	*70-130*			
Surrogate: Toluene-d8	*0.0253*		mg/L	*0.02500*		*101*	*70-130*			

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
B+	Blank Spike recovery is above upper control limit (B+).
B-	Blank Spike recovery is below lower control limit (B-).
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

CERTIFICATE OF ANALYSIS

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

ESS Laboratory Work Order: 1803460

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/HDM

Shipped/Delivered Via: Client

ESS Project ID: 1803460
Date Received: 3/21/2018
Project Due Date: 3/28/2018
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 5.4 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about **short holds & rushes**? Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

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

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	210187	Yes	No	Yes	VOA Vial - HCl	HCl	
01	210188	Yes	No	Yes	VOA Vial - HCl	HCl	
01	210189	Yes	No	Yes	VOA Vial - HCl	HCl	
02	210184	Yes	No	Yes	VOA Vial - HCl	HCl	
02	210185	Yes	No	Yes	VOA Vial - HCl	HCl	
02	210186	Yes	No	Yes	VOA Vial - HCl	HCl	
03	210181	Yes	No	Yes	VOA Vial - HCl	HCl	
03	210182	Yes	No	Yes	VOA Vial - HCl	HCl	
03	210183	Yes	No	Yes	VOA Vial - HCl	HCl	
04	210178	Yes	No	Yes	VOA Vial - HCl	HCl	
04	210179	Yes	No	Yes	VOA Vial - HCl	HCl	
04	210180	Yes	No	Yes	VOA Vial - HCl	HCl	
05	210175	Yes	No	Yes	VOA Vial - HCl	HCl	
05	210176	Yes	No	Yes	VOA Vial - HCl	HCl	
05	210177	Yes	No	Yes	VOA Vial - HCl	HCl	
06	210172	Yes	No	Yes	VOA Vial - HCl	HCl	
06	210173	Yes	No	Yes	VOA Vial - HCl	HCl	
06	210174	Yes	No	Yes	VOA Vial - HCl	HCl	
07	210169	Yes	No	Yes	VOA Vial - HCl	HCl	
07	210170	Yes	No	Yes	VOA Vial - HCl	HCl	
07	210171	Yes	No	Yes	VOA Vial - HCl	HCl	
08	210166	Yes	No	Yes	VOA Vial - HCl	HCl	
08	210167	Yes	No	Yes	VOA Vial - HCl	HCl	
08	210168	Yes	No	Yes	VOA Vial - HCl	HCl	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/HDM

ESS Project ID: 1803460

Date Received: 3/21/2018

09	210163	Yes	No	Yes	VOA Vial - HCl	
09	210164	Yes	No	Yes	VOA Vial - HCl	
09	210165	Yes	No	Yes	VOA Vial - [illegible]	
10	210160	Yes	No	Yes	VOA Vial - HCl	
10	210161	Yes	No	Yes	VOA Vial - HCl	
10	210162	Yes	No	Yes	VOA Vial - HCl	
11	210157	Yes	No	Yes	VOA Vial - HCl	
11	210158	Yes	No	Yes	VOA Vial - HCl	
11	210159	Yes	No	Yes	VOA Vial - HCl	
12	210154	Yes	No	Yes	VOA Vial - HCl	
12	210155	Yes	No	Yes	VOA Vial - HCl	
12	210156	Yes	No	Yes	VOA Vial - HCl	
13	210151	Yes	No	Yes	VOA Vial - HCl	
13	210152	Yes	No	Yes	VOA Vial - HCl	
13	210153	Yes	No	Yes	VOA Vial - HCl	
14	210149	Yes	No	Yes	VOA Vial - HCl	
14	210150	Yes	No	Yes	VOA Vial - HCl	
15	210147	Yes	No	Yes	VOA Vial - HCl	
15	210148	Yes	No	Yes	VOA Vial - HCl	

2nd Review

Are barcode labels on correct containers? (Yes) No

Completed By: _____ Date & Time: 3/21/18 1746

Reviewed By: _____ Date & Time: 3/21/18 1803

Delivered By: _____ 3/21/18 1803

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1803460

Turn Time: 5-Day (Rush)
Regulatory State:
Is this project for any of the following?: ○CT RCP ○MA MCP ○RGP
Reporting Limits:
Electonic Deliverables: ☒ Limit Checker ☒ Standard Excel ☒ Other (Please Specify →) pdf.

Company Name: GZA GeoEnvironmental
Contact Person: Sara Haupt
Project #: 33554.00
Project Name: 642 Allens Ave.
Address: 570 Broadway
City: Providence
State: RI
Zip Code: 02906
PO #:
Telephone Number: (401) 751-8613
FAX Number: (401) 751-8613
Email Address: sara.haupt@gza.com

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Analysis: VOC
1	3/20/18	1600	G	GW	GZA-201	X
2	3/21/18	1245			GZ-301D	X
3	3/21/18	1138			GZ-304D	X
4	3/21/18	1118			GZ-309D	X
5	3/21/18	927			GZ-319D	X
6	3/21/18	1206			RCA-1	X
7	3/21/18	1308			RCA-12R	X
8	3/21/18	955			RCA-15	X
9	3/21/18	855			RCA-22	X
10	3/20/18	1546			RCA-36	X

Container Type: AC-Air Cassette, AG-Amber Glass, B-BOD Bottle, C-Cubitainer, G-Glass, O-Other, P-Poly, S-Sterile, (V-Vial) — V
Container Volume: 1-100 mL, 2-2.5 gal, 3-250 mL, 4-300 mL, 5-500 mL, 6-1L, (7-VOA), 8-2 oz, 9-4 oz, 10-8 oz, 11-Other* — 7
Preservation Code: 1-Non Preserved, (2-HCl), 3-H2SO4, 4-HNO3, 5-NaOH, 6-Methanol, 7-Na2S2O3, 8-ZnAce, NaOH, 9-NH4Cl, 10-DI H2O, 11-Other* — 2
Number of Containers per Sample: 3

Laboratory Use Only
Cooler Present: yes
Seals Intact: n/a
Cooler Temperature: 5.4 °C ice

Sampled by: Rowan Hayes, Charles Linden, Eric Mygard
Comments: Please specify "Other" preservative and containers types in this space

Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)
3/21/18 1618	3/21/18 1618		
Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1803460

Turn Time: 5-Day Rush
Regulatory State
Is this project for any of the following?: ○CT RCP ○MA MCP ○RGP
Reporting Limits
Electonic Deliverables: ☒Limit Checker ☑Standard Excel ☒Other (Please Specify →) PDF

Company Name: GZA GeoEnvironmental
Contact Person: Sara Haupt
Project #: 33554.00
Project Name: 642 Allens Ave
Address: 530 Broadway
City: Providence
State: RI
Zip Code: 02909
PO #:
Telephone Number: (401) 751-8613
FAX Number: (401) 751-4613
Email Address: sara.haupt@gza.com

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Analysis: VOC
11	3/21/18	1154	G	GW	VHB-1	X
12	3/21/18	953			VHB-20	X
13	3/21/18	800			BD32118	X
14	3/20/18	800			Trip Blank	X
15	3/21/18	800	↓	↓	Trip Blank	X

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer G-Glass O-Other P-Poly S-Sterile (V-Vial) — V
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L (7-VOA) 8-2 oz 9-4 oz 10-8 oz 11-Other* — 1
Preservation Code: 1-Non Preserved (2-HCl) 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other* — 3
Number of Containers per Sample: 3

Laboratory Use Only
Cooler Present: Yes
Seals Intact: N/A
Cooler Temperature: 5.4 °C IR

Sampled by: Rowan Hayes, Eric Mgaud, Charles Linder
Comments: Please specify "Other" preservative and containers types in this space

Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)
3/21/18 1618	3/21/18 1618		
Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)