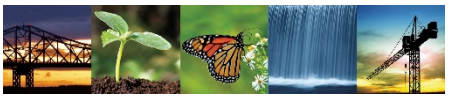

GZA
Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue
Norwood, MA 02062
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March 23, 2016
GZA File No: 01.00171521.42

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
Northeast Regional Office
205B Lowell Street
Wilmington, Massachusetts 01887

Re: Immediate Response Action Status Report No. 1
Underground Storage Tank Removal
(Former) Everett Staging Yard
1 Horizon Way
Everett, Massachusetts
Release Tracking Number 3-33284

To Whom It May Concern:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Wynn MA, LLC (Wynn MA), has prepared this Immediate Response Action (IRA) Status Report to describe those Response Actions pursuant to the Massachusetts Contingency Plan (MCP) completed to date to address contamination associated with a recently removed underground storage tank (UST) at the above-referenced disposal site (Site). The UST was encountered during ongoing Release Abatement Measure (RAM) activities being conducted at the disposal site under RTN 3-13341. An IRA Plan was submitted to the Massachusetts Department of Environmental Protection (MassDEP) for RTN 3-33284 on January 27, 2016. Since RTN 3-13341 is a Public Involvement Plan (PIP) site under the MCP, the IRA Plan was presented at a February 1, 2016, public meeting for review and comment. No comments were received.

This IRA Status Report has been prepared in accordance with 310 CMR 40.0425 of the MCP, and with the Limitations in Appendix A. This IRA Status Report will be submitted electronically through MassDEP's eDEP online filing system. A copy of the IRA transmittal form (BWSC-105) is included in Appendix B.

EXECUTIVE SUMMARY

On November 25, 2015, field screening in the vicinity of a recently removed UST at the Site indicated total volatile organic compound (VOC) levels that triggered a 72-hour notification requirement to the MassDEP under Section 40.0313(2) of the MCP. The location of the former UST is near the CES-2 Area, which is the subject of remediation under a RAM Plan submitted for RTN 3-13341.

An IRA Plan was submitted on January 27, 2016, outlining actions to be taken in response to the release. In late February, contaminated soil from within the tank grave was excavated and stockpiled on-site for characterization and disposal. Confirmatory soil samples taken from the sidewalls and bottom of the UST did not indicated residual petroleum contamination above applicable MCP standards.

SITE AND SURROUNDING AREA CONDITIONS

The IRA disposal site is a small portion of the property at 1 Horizon Way in Everett ("the property;" Figure 1). The location of the former UST is depicted on Figure 2. The approximate latitude and longitude for the location of the UST are 42.3945 degrees north and 71.0705 degrees west, respectively. The Universal Transverse Mercator (UTM) coordinates are 4,695,655 meters north and 329,585 meters east. Access to the property is limited by the presence of a chain-link fence with several locked gates. The ground surface at the property is generally bituminous pavement, unpaved, or compacted coarse gravel. The ground surface at the property is generally flat with a gentle slope toward the southwest. Based on an April 2013 survey prepared by Harry R. Feldman, Inc. (Professional Land Surveyors), ground surface elevations on the property range from approximately 8 to 13 feet NAVD88.

The 1 Horizon Way property is adjoined to the northeast by a vehicle maintenance and repair facility operated by the Massachusetts Bay Transportation Authority (MBTA); to the southeast by properties along Alford Street, including a vacant commercial building and facilities operated by the Boston Water and Sewer Commission (BWSC) and the Massachusetts Water Resources Authority (MWRA); to the southwest by the Mystic River; and to the northwest by railroad tracks for the MBTA Commuter Rail, beyond which are several large commercial/retail buildings associated with the Gateway Center.

The property is located within the Boston Basin, a regional depression of bedrock consisting primarily of Cambridge Argillite, a partially metamorphosed siltstone. Property conditions generally consist of fill over a variable sequence of naturally deposited organics, sand and gravel, and silty clay over weathered rock and bedrock. Filling over naturally deposited materials occurred in the area of the property from the late 1800s through the early 1960s. More recent naturally deposited sediments along the shoreline include sand, silt, and organics.

Depth to groundwater at the property ranges from approximately 4 to 10 feet. Groundwater at the property flows generally toward the east on the southern portion of the property and generally toward the south on the northern portion of the property. Depth to water in the area of the UST is approximately 10 feet, while groundwater in this area is anticipated to flow easterly, toward the Mystic River.

According to a Massachusetts Geographic Information System (MassGIS) map, the property is not located in or within 500 feet of a Zone II public water supply, a potentially productive aquifer, a Zone A surface water body, an Interim Wellhead Protection Area, a protected wetlands habitat, or an Area of Critical Environmental Concern. Protected open space associated with Gateway Park is located approximately 400 feet to the northwest of the property.

Soil and groundwater at the property have been contaminated by historic activities, including the former use of the property as a chemical manufacturing facility. On August 18, 2015, Wynn MA and GZA submitted a RAM Plan under RTN 3-13341 documenting MCP Response Actions to be completed prior to the redevelopment of the property. RAM activities have been ongoing at the property. The objective of the activities described in the RAM Plan is to reduce the

risks associated with soil and groundwater contamination in the three areas of the property previously identified as the A-5 Area, the CES-2 Area, and the Low pH Area. Soils containing elevated concentrations of arsenic and lead in the A-5 Area have been excavated and disposed of off-site. Elevated concentrations of arsenic in soil and groundwater in the CES-2 Area are also being addressed through the excavation and disposal of soil off-site. Soil and groundwater in the Low pH Area are being treated using in-situ solidification/stabilization (ISS) to both reduce the ability of groundwater to flow through the Area, and raise the pH to limit the further mobilization of metals from soil to groundwater.

RELEASE HISTORY

On November 9, 2015, during excavation activities being conducted near the CES-2 Area under the RAM for RTN 3 13351, an approximately 5,000-gallon, single-wall steel UST was uncovered. The UST was not within the target remediation zone of the CES-2 Area, but was within an adjacent part of the property being excavated to create a ramp down to the target remediation zone. The UST measured approximately 6 feet by 27 feet, with an estimated volume of 5,000 gallons. The tank was encountered at a depth of approximately 6.5 feet below the existing ground surface, beneath an approximately 1-foot thick concrete slab. The UST appeared to be filled with a mixture of soil and groundwater that exhibited a petroleum-like odor. Representative samples of the soil and water from within the UST were obtained and submitted to ESS Laboratory (ESS) of Cranston, Rhode Island, for analysis of VOCs, semi-volatile organic compounds (SVOCs), pH, total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), MCP 14 metals, conductivity and/or reactivity.

Removal of the UST contents was initiated on November 24, 2015. Liquid within the UST was removed using a vacuum truck. Approximately 1,253 gallons of liquid was transported by Clean Harbors Environmental Services (CHES) under hazardous waste manifest to CHES' facility in South Portland, Maine The sludge within the UST was excavated into three lined roll-off containers for treatment to remove excess liquids (through the addition of wood chips) before off-site disposal (see below). Waste manifests for these materials were included in the IRA Plan.

On November 25, 2015, the UST was removed from the ground. Upon removal, the UST was observed to be in poor condition, and evidence of petroleum-impacted soils was observed in the tank grave. No non-aqueous phase liquid (NAPL) was observed in the excavation, and groundwater seen entering the excavation from the sidewalls did not appear to exhibit a sheen. Jar-headspace screening of soils using a photoionization detector (PID) indicted a maximum total VOC reading of 111 parts per million by volume (ppmv). This sample was obtained from greater than 2 feet below ground surface and within 10 feet of the UST, thereby triggering a 72-hour notification requirement to MassDEP under Section 40.0313(2) of the MCP. Later that day, GZA contacted Mr. Victor Fonkem at MassDEP's Northeast Regional Office (NERO) to report the release on behalf of Wynn. Mr. Fonkem issued RTN 3-33284 for the release and verbally authorized an IRA consisting of the excavation and off-site disposal of petroleum-impacted soil.

An IRA Plan was submitted to the Massachusetts Department of Environmental Protection for RTN 3-33284 on January 27, 2016.

IRA STATUS REPORT

The following sections provide IRA Plan information in accordance with 310 CMR 40.0425.

THE STATUS OF ASSESSMENT AND/OR REMEDIAL ACTIONS [310 CMR 40.0425(3)(a)]:

In addition to the IRA activities discussed in the Release History section above, the following activities have been conducted with respect to the UST.

On December 3, 2015, the Everett Fire Department inspected the UST, and approved off-site disposal of the tank. On December 8, 2015, the UST was transported to the James G. Grant Company, Inc., of Readville, Massachusetts, for disposal. Copies of the UST removal permit and disposal receipt were included with the IRA Plan.

On December 10 and 11, 2015, the three roll-offs containing soil removed from the UST were transported off-site. Approximately 45 cubic yards of impacted soil were transported under hazardous waste manifest to CHES' Braintree, Massachusetts facility. A copy of the manifest was included with the IRA Plan.

The tank grave was lined with polyethylene sheeting, and was backfilled with clean material to allow for access across the area for continued remediation of the CES-2 Area. IRA activities were then temporarily delayed until the IRA Plan could be filed and reviewed through the PIP process. As previously noted, the IRA Plan was filed on January 27, 2016.

On February 23, 2016, IRA activities recommenced. The backfill material previously placed within the excavation was excavated and stockpiled separately. Groundwater was encountered during the excavation; however, no NAPL or sheen was observed on the groundwater. In order to dewater the excavation, a temporary sump was installed adjacent to the excavation area, and groundwater was pumped to the groundwater treatment system operating as part of the RAM being conducted under RTN 3-13341. Approximately 125 cubic yards of petroleum impacted soil was removed from the excavation and transported to the on-site materials management area (MMA) for temporary stockpiling and characterization for off-Site disposal. Representative soil samples from the four sidewalls and the bottom of the excavation were collected, and were submitted to ESS for analysis for extractable petroleum hydrocarbons (EPH) with target polycyclic aromatic hydrocarbons (PAHs) and volatile petroleum hydrocarbons (VPH) with target VOCs. Result of the analyses are summarized on Table 1, and the laboratory analytical report is included as Appendix C. Several EPH range hydrocarbon fractions and PAHs were detected; however, the results were below the applicable Method 1 S-1/GW-2 Standards. No VPH range compounds were detected.

Upon completion of the excavation activities, the excavation was backfilled to the pre-existing surface grade.

A representative sample of the soil stockpiled from the UST excavation was collected on March 14, 2016, and submitted to ESS for analysis for disposal characterization. Once the results of these analyses have been received and the stockpiled soil has been disposed of off-Site, an IRA Completion Report will be submitted.

GZA anticipates that RTN 3-33284 will be linked to the RTN for the larger property as part of the IRA Completion Report, and that any further MCP Response Actions in the IRA area will be conducted under RTN 3-13341. These additional response actions will include the installation of at least one groundwater monitoring well at, or downgradient of, the

former UST location. A groundwater sample will be collected from the monitoring well(s) and submitted to ESS for analysis of EPH and VPH.

ANY SIGNIFICANT NEW SITE INFORMATION OR DATA [310 CMR 40.0425(3)(b)]

No new significant information or data has been developed for RTN 3-33284, with the exception of the previously noted confirmatory soil data.

DETAILS OF AND/OR PLANS FOR THE MANAGEMENT OF REMEDIATION WASTE, REMEDIAL WASTEWATER AND /OR REMEDIAL ADDITIVES [310 CMR 40.0425(3)(c)]

As previously noted, approximately 125 cubic yards of petroleum-impacted soil was generated during the excavation and stockpiled on-site. The stockpiled soil was placed on, and covered by, polyethylene sheeting pending disposal characterization sampling and eventual off-site disposal.

Soil transported off-site will be handled in accordance with the management procedures for remediation waste specified in the MCP at 310 CMR 40.0030. Each load of soil transported for disposal will be accompanied by the appropriate documentation. The documentation will be prepared and stamped by GZA's Licensed Site Professional. Wynn MA will be designated as the soil generator. The endorsed tracking/receipt forms issued by the licensed disposal facility will be included in the IRA Completion Report.

Groundwater encountered during the excavation was treated using the on-site groundwater treatment system operating under the RAM for RTN 3-13341, and was discharged on-site.

ANY OTHER INFORMATION REQUIRED BY THE DEPARTMENT IN ITS APPROVAL OF THE REMEDIATION RESPONSE ACTION PLAN [310 CMR 40.0425(3)(d)]

No other information was required by MassDEP in its approval of the IRA Plan.

AN LSP OPINION AS TO WHETHER THE IMMEDIATE RESPONSE ACTION IS BEING CONDUCTED IN CONFORMANCE WITH THE IMMEDIATE RESPONSE ACTION PLAN AND ANY CONDITIONS OF APPROVAL ESTABLISHED BY THE DEPARTMENT [310 CMR 40.0425(3)(e)]

The LSP certification is provided on the BWSC-105 transmittal form included in Appendix A.

Please feel free to contact any of the undersigned at (781) 278-3700 if you have any questions or require additional information.

GZA GEOENVIRONMENTAL, INC.

David E. Leone
Senior Project Manager

Albert J. Ricciardelli
Consultant/Reviewer

Lawrence Feldman, LSP
Senior Principal

Attachments: Table 1 – Soil Analytical Data
Figure 1 – Site Locus
Figure 2 – Site Plan
Appendix A – Limitations
Appendix B – BWSC Form 105
Appendix C – Laboratory Analytical Results

J:\170,000-179,999\171521\171521-42.DEL\CES-2 UST IRA Status\Wynn Everett CES-2 UST IRA Status RTN 3-33284.docx

TABLE

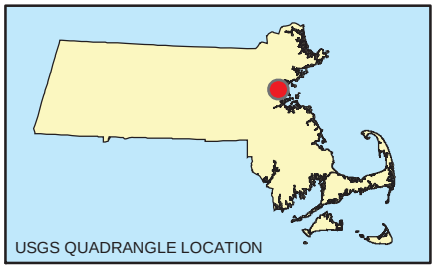
TABLE 1
SOIL ANALYTICAL RESULTS
CES-2 UST Excavation
1 Horizon Way
Everett, Massachusetts

GZA File No. 01.0171521.42
3/14/2016

Sample Name:	UST_NW_02-24-16	UST_BTM_02-24-16	UST_SW_02-24-16	UST_EW_02-24-16	UST_WW_02-24-16	MCP Standards	
Sample Date:	2/24/2016	2/24/2016	2/24/2016	2/24/2016	2/24/2016	**RCS-2**	**Methd 1 S-1/GW-2**
Extractable Petroleum Hydrocarbons							
C9-C18 Aliphatics	<52.6	<38.7	<58.8	<36.5	<36.8	3000	1000
C11-C22 Aromatics	128	<38.7	120	<36.5	<36.8	3000	1000
C19-C36 Aliphatics	134	<38.7	61.4	57.3	<36.8	5000	3000
2-Methylnaphthalene	<0.7	<0.52	<0.78	<0.49	<0.49	80	80
Acenaphthene	<1.4	<1.03	<1.57	<0.97	<0.98	3000	1000
Acenaphthylene	<0.7	<0.52	<0.78	<0.49	<0.49	10	600
Anthracene	<1.4	<1.03	<1.57	<0.97	<0.98	3000	1000
Benzo(a)anthracene	<1.4	<1.03	1.65	<0.97	<0.98	40	7
Benzo(a)pyrene	<1.4	<1.03	<1.57	<0.97	<0.98	4	2
Benzo(b)fluoranthene	<1.4	<1.03	1.69	<0.97	<0.98	40	7
Benzo(g,h,i)perylene	<1.4	<1.03	<1.57	<0.97	<0.98	3000	1000
Benzo(k)fluoranthene	<1.4	<1.03	<1.57	<0.97	<0.98	400	70
Chrysene	<1.4	<1.03	<1.57	<0.97	<0.98	400	70
Dibenzo(a,h)Anthracene	<0.7	<0.52	<0.78	<0.49	<0.49	4	0.7
Fluoranthene	<1.4	<1.03	5.04	1.41	<0.98	3000	1000
Fluorene	<1.4	<1.03	<1.57	<0.97	<0.98	3000	1000
Indeno(1,2,3-cd)Pyrene	<1.4	<1.03	<1.57	<0.97	<0.98	40	7
Naphthalene	<1.4	<1.03	<1.57	<0.97	<0.98	40	20
Phenanthrene	<1.4	<1.03	2.68	1.45	<0.98	1000	500
Pyrene	<1.4	<1.03	4.05	1.15	<0.98	3000	1000
Volatile Petroleum Hydrocarbon							
C5-C8 Aliphatics	<31.6	<19.2	<34.7	<8.71	<16.1	500	100
C9-C10 Aromatics	<31.6	<19.2	<34.7	<8.71	<16.1	500	100
C9-C12 Aliphatics	<31.6	<19.2	<34.7	<8.71	<16.1	3000	1000
Benzene	<0.63	<0.38	<0.69	<0.17	<0.32	200	40
Ethylbenzene	<0.63	<0.38	<0.69	<0.17	<0.32	1000	500
Methyl tert-Butyl Ether	<0.16	<0.1	<0.17	<0.04	<0.08	100	100
Naphthalene	<0.63	<0.38	<0.69	0.42	<0.32	40	20
Toluene	<0.63	<0.38	<0.69	<0.17	<0.32	1000	500
Xylene O	<0.63	<0.38	<0.69	<0.17	<0.32	100	100
Xylene P,M	<1.26	<0.77	<1.39	<0.35	<0.64	100	100

Notes:
All values in milligrams per kilogram (mg/kg)
MCP: Massachusetts Contingency Plan (MCP, 310 CMR 40.0000)

FIGURES



SOURCE : THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 12, 2009 BY ESRI ARCIMS SERVICES AND UPDATED AS NEEDED. THIS SERVICE USES UNIFORM NATIONALLY RECOGNIZED DATUM AND CARTOGRAPHY STANDARDS AND A VARIETY OF AVAILABLE SOURCES FROM SEVERAL DATA PROVIDERS.

Data Supplied by : esri

0 1,000 2,000 4,000 6,000

SCALE IN FEET

N W E S

PROJ. MGR.: DEL
DESIGNED BY: DEL
REVIEWED BY: LF
OPERATOR: EMD

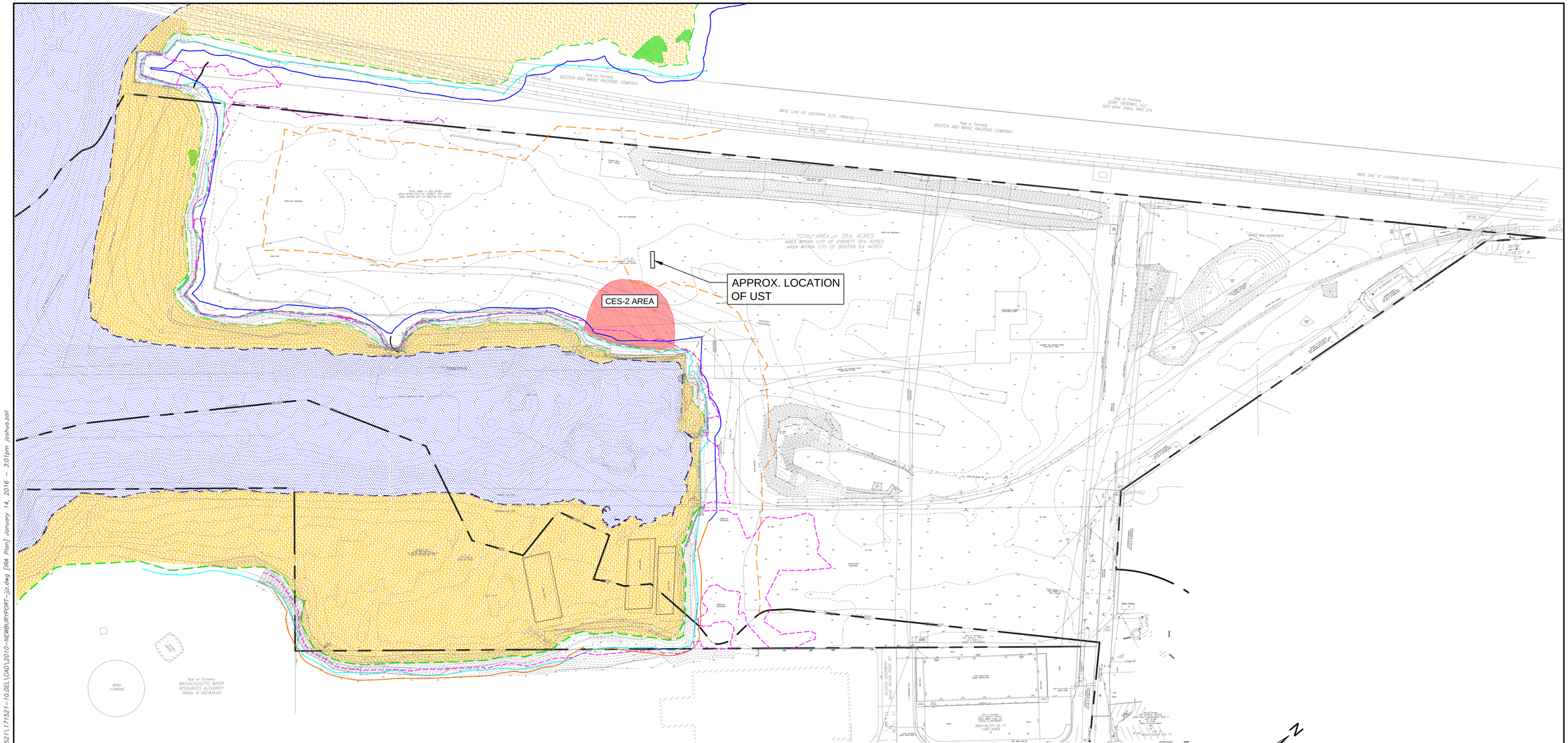
DATE: 10-14-2014

LOCUS PLAN

1 HORIZON WAY
EVERETT, MASSACHUSETTS

JOB NO.
01.0171521.05

FIGURE NO.
1



LEGEND

- EROSION AND SEDIMENTATION CONTROL BARRIER
- RIVERFRONT AREA
- TOP OF COASTAL BANK
- TOP OF COASTAL BANK (COINCIDENT WITH 100YEAR FLOOD ELEVATION)
- 100-FT BUFFER ZONE (FROM COASTAL BANK)
- 100 YEAR FLOOD ZONE AE (9.00' NAVD88) - FIRM PANEL 0439E, EFFECTIVE DATE JUNE 4, 2010 & FIRM PANEL 0014G, EFFECTIVE DATE SEPT. 25, 2009 (FEMA WEB SITE)
- COASTAL BEACH / TIDAL FLATS / LAND CONTAINING SHELLFISH
- LAND UNDER THE OCEAN / LAND CONTAINING SHELLFISH
- SALT MARSH
- MEAN HIGH WATER (4.35' NAVD88)
- MEAN LOW WATER (-5.21' NAVD88)

SOURCE:

1. THE BASE MAP WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY FELDMAN, PROFESSIONAL LAND SURVEYORS ON JANUARY 15, 2015, CAD FILE: 14517-EX-FBT-1-15-2015.DWG.

WYNN EVERETT
EVERETT, MASSACHUSETTS

IMMEDIATE RESPONSE ACTION PLAN
RTN 3-33284

PREPARED BY:

GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PROJ MGR: DEL	REVIEWED BY: MH	CHECKED BY: MH		FIGURE
DESIGNED BY: MH	DRAWN BY: JJZ	SCALE: 1" = 80 FEET		2
DATE: 01-14-2016	PROJECT NO. 01.0171521.00	REVISION NO.		

APPENDIX A

LIMITATIONS

USE OF REPORT

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

STANDARD OF CARE

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

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

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

SUBSURFACE CONDITIONS

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

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

COMPLIANCE WITH CODES AND REGULATIONS

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

SCREENING AND ANALYTICAL TESTING

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

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

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

INTERPRETATION OF DATA

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

ADDITIONAL INFORMATION

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

ADDITIONAL SERVICES

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

CONCEPTUAL SITE MODEL

14. Our opinions were developed, in part, based upon a comparison of site data to conditions anticipated within our Conceptual Site Model (CSM). The CSM is based on available information, and professional judgment. There are rarely sufficient data to develop a unique CSM. Therefore observations over time, and/or space, may vary from those depicted in the CSM provided in this report. In addition, the CSM should be evaluated and refined (as appropriate) whenever significant new information and/or data is obtained.

15. As additional field data becomes available our numerical model can be modified to better reflect conditions of possible interest.

RISK CHARACTERIZATION

16. Our risk evaluation was performed in accordance with generally accepted practices of appropriate Federal and/or state regulatory agencies, and of other consultants undertaking similar studies at the same time, for similar purposes, and under similar circumstances. The findings of the risk evaluation are dependent on the numerous assumptions and uncertainties inherent in the risk characterization process. Sources of the uncertainty may include Site conditions; Site

use; the nature, extent, concentration and distribution of contaminants; and the available toxicity and/or health/risk based regulatory information. Consequently, the findings of the risk characterization are not an absolute characterization of actual risks; but rather serve to highlight potential incremental risks associated with activities indicated in the Report. Actual risks may be other than indicated in the Report.

APPENDIX B

BWSC FORM 105

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 105

Immediate Response Action (IRA) Transmittal Form
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number
3 - 33284

A. SITE LOCATION:

1. Release Name/Location Aid: NO LOCATION AID

2. Street Address: 1 HORIZON WAY

3. City/Town: EVERETT 4. Zip Code:

€ 5. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114.

€ a. CERCLA € b. HSWA Corrective Action € c. Solid Waste Management

€ d. RCRA State Program (21C Facilities)

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial IRA Written Plan (if previously submitted):

€ 2. Submit an **Initial IRA Plan**.

€ 3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.

€ 4. Submit an **Imminent Hazard Evaluation**. (check one)

€ a. An Imminent Hazard exists in connection with this Release or Threat of Release.

€ b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.

€ c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.

€ d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.

€ 5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.

b 6. Submit an **IRA Status Report**

€ 7. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) € i. Initial Report € ii. Interim Report € iii. Final Report

b. Frequency of Submittal: (check all that apply)

€ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

€ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

€ iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with an IRA Status Report.

€ iv. A Remedial Monitoring Report(s) submitted annually, concurrent with an IRA Status Report.

c. Number of Remedial Systems and/or Monitoring Programs:

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

¨ 8. Submit an **IRA Completion Statement**.

¨ a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN)

b. Provide Release Tracking Number of Tier Classified Site (Primary RTN): _____ _____

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

¨ 9. Submit a **Revised IRA Completion Statement**.

¨ 10. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:

1. Media Impacted and Receptors Affected: (check all that apply)

¨ a. Paved Surface ¨ b. Basement ¨ c. School
¨ d. Public Water Supply ¨ e. Surface Water ¨ f. Zone 2 ¨ g. Private Well ¨ h. Residence þ i. Soil
þ j. Groundwater ¨ k. Sediments ¨ l. Wetland ¨ m. Storm Drain ¨ n. Indoor Air ¨ o. Air
¨ p. Soil Gas ¨ q. Sub-Slab Soil Gas ¨ r. Critical Exposure Pathway ¨ s. NAPL ¨ t. Unknown
¨ r. Others Specify: _____

2. Sources of the Release or TOR: (check all that apply)

¨ a. Transformer ¨ b. Fuel Tank ¨ c. Pipe
¨ d. OHM Delivery ¨ e. AST ¨ f. Drums ¨ g. Tanker Truck ¨ h. Hose ¨ i. Line
þ j. UST Describe: Tank ¨ k. Vehicle ¨ l. Boat/Vessel
¨ m. Unknown ¨ n. Other: _____

3. Type of Release or TOR: (check all that apply)

¨ a. Dumping ¨ b. Fire ¨ c. AST Removal ¨ d. Overfill
¨ e. Rupture ¨ f. Vehicle Accident ¨ g. Leak ¨ h. Spill ¨ i. Test failure ¨ j. TOR Only
þ k. UST Removal Describe: Tank Corrosion resulting in a release of OHM
¨ l. Unknown ¨ m. Other: _____

4. Identify Oils and Hazardous Materials Released: (check all that apply)

þ a. Oils ¨ b. Chlorinated Solvents
¨ c. Heavy Metals ¨ d. Others Specify: _____

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

¨ 1. Assessment and/or Monitoring Only
¨ 2. Temporary Covers or Caps
¨ 3. Deployment of Absorbent or Containment Materials
¨ 4. Temporary Water Supplies
¨ 5. Structure Venting System/HVAC Modification System
¨ 6. Temporary Evacuation or Relocation of Residents
¨ 7. Product or NAPL Recovery
¨ 8. Fencing and Sign Posting
¨ 9. Groundwater Treatment Systems
¨ 10. Soil Vapor Extraction
¨ 11. Remedial Additives
¨ 12. Air Sparging
¨ 13. Active Exposure Pathway Mitigation System
¨ 14. Passive Exposure Pathway Mitigation System

D. DESCRIPTION OF RESPONSE ACTIONS: (cont.)

þ 15. Excavation of Contaminated Soils.

€ a. Re-use, Recycling or Treatment € i. On Site Estimated volume in cubic yards

€ ii. Off Site Estimated volume in cubic yards

iia. Receiving Facility: Town: State:

iib. Receiving Facility: Town: State:

iii. Describe:

€ b. Store € i. On Site Estimated volume in cubic yards

€ ii. Off Site Estimated volume in cubic yards

iia. Receiving Facility: Town: State:

iib. Receiving Facility: Town: State:

þ c. Landfill € i. Cover Estimated volume in cubic yards

Receiving Facility: Town: State:

þ ii. Disposal Estimated volume in cubic yards 125

Receiving Facility: TBD Town: TBD State: MA

þ 16. Removal of Drums, Tanks, or Containers:

a. Describe Quantity and Amount: REMOVAL OF APPROX. 5,000-GALLON STEEL UST

b. Receiving Facility: JAMES G. GRANT Town: READVILLE State: MA

c. Receiving Facility: Town: State:

þ 17. Removal of Other Contaminated Media:

a. Specify Type and Volume: 1,253 GALLONS LIQUID UST CONTENTS TRANSPORTED TO CHES, S. PORTLAND, ME, 45 YARDS SOLID UST

€ 18. Other Response Actions:

Describe:

€ 19. Use of Innovative Technologies:

Describe:

E. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisionsof 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish thepurposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Action Status Report** and/or a **Remedial Monitoring Report** is(are) being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000,(ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 8107

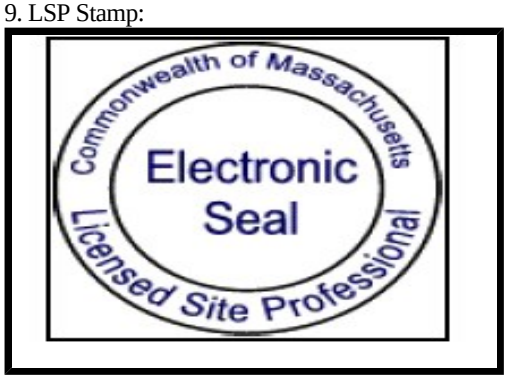
2. First Name: LAWRENCE 3. Last Name: FELDMAN

4. Telephone: 781-278-3700 5. Ext: 6. Email:

7. Signature: LAWRENCE FELDMAN

8. Date: 3/24/2016 *(mm/dd/yyyy)*

9. LSP Stamp:



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Immediate Response Action (IRA) Transmittal Form
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

BWSC 105

Release Tracking Number
3 - 33284

F. PERSON UNDERTAKING IRA:

1. Check all that apply: þ a. change in contact name ¨ b. change of address ¨ c. change in the person undertaking response actions

2. Name of Organization: WYNN MA LLC

3. Contact First Name: ROBERT 4. Last Name: DESALVIO

5. Street: 101 STATION LANDING 2ND FLOOR 6. Title: PRESIDENT

7. City/Town: MEDFORD 8. State: MA 9. Zip Code: 021550000

10. Telephone: 857-770-7801 11. Ext: 12. Email:

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:

¨ Check here to change relationship

þ 1. RP or PRP þ a. Owner ¨ b. Operator ¨ c. Generator ¨ d. Transporter

¨ e. Other RP or PRP Specify Relationship:

¨ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

¨ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

¨ 4. Any Other Person Undertaking Response Actions: Specify Relationship:

H. REQUIRED ATTACHMENT AND SUBMITTALS:

¨ 1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.

¨ a. A Release Abatement Measure (RAM) Plan (BWSC106) ¨ b. Phase IV Remedy Implementation Plan (BWSC108)

¨ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by MassDEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

¨ 3. Check here to certify that the Chief Municipal Officer and the Local Boardof Health were notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

¨ 4. Check here to certify that the Chief Municipal Officer and the Local Boardof Health were notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

¨ 5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@state.ma.us.

þ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Immediate Response Action (IRA) Transmittal Form
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

BWSC 105

Release Tracking Number
3 - 33284

I. CERTIFICATION OF PERSON UNDERTAKING IRA:

1. I, ROBERT DESALVIO , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: ROBERT DESALVIO 3. Title: PRESIDENT

4. For: WYNN MA LLC 5. Date: 3/24/2016 (mm/dd/yyyy)

€ 6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street:

8. City/Town: 9. State: 10. Zip Code:

11. Telephone: 12. Ext: 13. Email:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on
3/24/2016 4:26:59 PM

APPENDIX C

LABORATORY ANALYTICAL DATA

CERTIFICATE OF ANALYSIS

Matt Smith
GZA GeoEnvironmental, Inc.
249 Vanderbilt Avenue
Norwood, MA 02062

RE: Wynn Everett (01.0171521.41 Task 2)
ESS Laboratory Work Order Number: 1602554

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 4:14 pm, Mar 03, 2016

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 NELAC Standards, A2LA 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: Wynn Everett

ESS Laboratory Work Order: 1602554

SAMPLE RECEIPT

The following samples were received on February 25, 2016 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1602554-01	UST_NW_02-24-16	Soil	EPH8270, MADEP-EPH
1602554-02	UST_NW_02-24-16	Soil	MADEP-VPH
1602554-03	UST_BTM_02-24-16	Soil	EPH8270, MADEP-EPH
1602554-04	UST_BTM_02-24-16	Soil	MADEP-VPH
1602554-05	UST_SW_02-24-16	Soil	EPH8270, MADEP-EPH
1602554-06	UST_SW_02-24-16	Soil	MADEP-VPH
1602554-07	UST_EW_02-24-16	Soil	EPH8270, MADEP-EPH
1602554-08	UST_EW_02-24-16	Soil	MADEP-VPH
1602554-09	UST_WW_02-24-16	Soil	EPH8270, MADEP-EPH
1602554-10	UST_WW_02-24-16	Soil	MADEP-VPH

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

PROJECT NARRATIVE

MADEP-EPH Extractable Petroleum Hydrocarbons

1602554-07	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).**
	1-Chlorooctadecane (35% @ 40-140%)
CB62521-BSD1	**Relative percent difference for duplicate is outside of criteria (D+).**
	C19-C36 Aliphatics1 (38% @ 25%), C9-C18 Aliphatics1 (35% @ 25%), Eicosane (C20) (26% @ 25%), Hexacosane (C26) (26% @ 25%), Hexatriacontane (C36) (52% @ 25%), Octacosane (C28) (28% @ 25%), Triacontane (C30) (31% @ 25%)
CZB0378-CCV2	**Continuing Calibration %Diff/Drift is below control limit (CD-).**
	Hexatriacontane (C36) (41% @ 25%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

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: Wynn Everett

ESS Laboratory Work Order: 1602554

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
8015D - 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: Wynn Everett
Client Sample ID: UST_NW_02-24-16
Date Sampled: 02/24/16 12:50
Percent Solids: 47
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-01
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 2/25/16 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (52.6)		MADEP-EPH		1	ZLC	02/26/16 16:09	CZB0378	CB62521
C19-C36 Aliphatics1	**134** (52.6)		MADEP-EPH		1	ZLC	02/26/16 16:09	CZB0378	CB62521
C11-C22 Unadjusted Aromatics1	**128** (52.6)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
C11-C22 Aromatics1,2	**128** (52.6)		EPH8270			VSC	02/27/16 9:29		[CALC]
2-Methylnaphthalene	ND (0.70)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Acenaphthene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Naphthalene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Phenanthrene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Acenaphthylene	ND (0.70)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Anthracene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Benzo(a)anthracene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Benzo(a)pyrene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Benzo(b)fluoranthene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Benzo(g,h,i)perylene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Benzo(k)fluoranthene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Chrysene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Dibenzo(a,h)Anthracene	ND (0.70)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Fluoranthene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Fluorene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Indeno(1,2,3-cd)Pyrene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521
Pyrene	ND (1.40)		EPH8270		1	VSC	02/27/16 9:29	CZB0420	CB62521

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*54 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*96 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*83 %*		*40-140*
Surrogate: O-Terphenyl	*74 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_NW_02-24-16
Date Sampled: 02/24/16 12:50
Percent Solids: 47
Initial Volume: 15.7
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (31.6)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
C5-C8 Aliphatics1,2	ND (31.6)		MADEP-VPH		1	02/26/16 15:23		[CALC]
C9-C12 Aliphatics2,3	ND (31.6)		MADEP-VPH		1	02/26/16 15:23		[CALC]
Benzene	ND (0.63)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Ethylbenzene	ND (0.63)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Methyl tert-Butyl Ether	ND (0.16)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Naphthalene	ND (0.63)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Toluene	ND (0.63)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Xylene O	ND (0.63)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
Xylene P,M	ND (1.26)		MADEP-VPH		1	02/26/16 15:23	CZB0381	CB62625
1:1 Methanol/Soil Ratio %D	**5** (N/A)		MADEP-VPH			02/26/16 7:40		CB62625
Preservative:	**MeOH - covered**		MADEP-VPH					CB62625

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*96 %*		*70-130*
Surrogate: 2,5-Dibromotoluene - PID	*99 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*109 %*		*70-130*
Surrogate: Trifluorotoluene - PID	*114 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_BTM_02-24-16
Date Sampled: 02/24/16 13:15
Percent Solids: 64
Initial Volume: 15.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-03
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 2/25/16 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (38.7)		MADEP-EPH		1	ZLC	02/26/16 16:56	CZB0378	CB62521
C19-C36 Aliphatics1	ND (38.7)		MADEP-EPH		1	ZLC	02/26/16 16:56	CZB0378	CB62521
C11-C22 Unadjusted Aromatics1	ND (38.7)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
C11-C22 Aromatics1,2	ND (38.7)		EPH8270			VSC	02/27/16 10:06		[CALC]
2-Methylnaphthalene	ND (0.52)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Acenaphthene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Naphthalene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Phenanthrene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Acenaphthylene	ND (0.52)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Anthracene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Benzo(a)anthracene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Benzo(a)pyrene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Benzo(b)fluoranthene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Benzo(g,h,i)perylene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Benzo(k)fluoranthene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Chrysene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Dibenzo(a,h)Anthracene	ND (0.52)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Fluoranthene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Fluorene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Indeno(1,2,3-cd)Pyrene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521
Pyrene	ND (1.03)		EPH8270		1	VSC	02/27/16 10:06	CZB0420	CB62521

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*58 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*100 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*88 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_BTM_02-24-16
Date Sampled: 02/24/16 13:15
Percent Solids: 64
Initial Volume: 17.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (19.2)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
C5-C8 Aliphatics1,2	ND (19.2)		MADEP-VPH		1	02/26/16 15:56		[CALC]
C9-C12 Aliphatics2,3	ND (19.2)		MADEP-VPH		1	02/26/16 15:56		[CALC]
Benzene	ND (0.38)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Ethylbenzene	ND (0.38)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Methyl tert-Butyl Ether	ND (0.10)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Naphthalene	ND (0.38)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Toluene	ND (0.38)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Xylene O	ND (0.38)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
Xylene P,M	ND (0.77)		MADEP-VPH		1	02/26/16 15:56	CZB0381	CB62625
1:1 Methanol/Soil Ratio %D	**15** (N/A)		MADEP-VPH			02/26/16 7:40		CB62625
Preservative:	**MeOH - covered**		MADEP-VPH					CB62625

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*99 %*		*70-130*
Surrogate: 2,5-Dibromotoluene - PID	*102 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*110 %*		*70-130*
Surrogate: Trifluorotoluene - PID	*118 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_SW_02-24-16
Date Sampled: 02/24/16 13:30
Percent Solids: 43
Initial Volume: 15
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-05
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 2/25/16 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (58.8)		MADEP-EPH		1	ZLC	02/26/16 17:45	CZB0378	CB62521
C19-C36 Aliphatics1	**61.4** (58.8)		MADEP-EPH		1	ZLC	02/26/16 17:45	CZB0378	CB62521
C11-C22 Unadjusted Aromatics1	**135** (58.8)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
C11-C22 Aromatics1,2	**120** (58.8)		EPH8270			VSC	02/27/16 10:43		[CALC]
2-Methylnaphthalene	ND (0.78)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Acenaphthene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Naphthalene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Phenanthrene	**2.68** (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Acenaphthylene	ND (0.78)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Anthracene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Benzo(a)anthracene	**1.65** (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Benzo(a)pyrene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Benzo(b)fluoranthene	**1.69** (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Benzo(g,h,i)perylene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Benzo(k)fluoranthene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Chrysene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Dibenzo(a,h)Anthracene	ND (0.78)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Fluoranthene	**5.04** (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Fluorene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Indeno(1,2,3-cd)Pyrene	ND (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521
Pyrene	**4.05** (1.57)		EPH8270		1	VSC	02/27/16 10:43	CZB0420	CB62521

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	*59 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*97 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*86 %*		*40-140*
Surrogate: O-Terphenyl	*72 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_SW_02-24-16
Date Sampled: 02/24/16 13:30
Percent Solids: 43
Initial Volume: 16.3
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (34.7)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
C5-C8 Aliphatics1,2	ND (34.7)		MADEP-VPH		1	02/26/16 16:28		[CALC]
C9-C12 Aliphatics2,3	ND (34.7)		MADEP-VPH		1	02/26/16 16:28		[CALC]
Benzene	ND (0.69)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Ethylbenzene	ND (0.69)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Methyl tert-Butyl Ether	ND (0.17)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Naphthalene	ND (0.69)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Toluene	ND (0.69)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Xylene O	ND (0.69)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
Xylene P,M	ND (1.39)		MADEP-VPH		1	02/26/16 16:28	CZB0381	CB62625
1:1 Methanol/Soil Ratio %D	**9** (N/A)		MADEP-VPH			02/26/16 7:40		CB62625
Preservative:	**MeOH - covered**		MADEP-VPH					CB62625

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*92 %*		*70-130*
Surrogate: 2,5-Dibromotoluene - PID	*96 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*110 %*		*70-130*
Surrogate: Trifluorotoluene - PID	*115 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_EW_02-24-16
Date Sampled: 02/24/16 13:45
Percent Solids: 85
Initial Volume: 24.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-07
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 3/2/16 15:30

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (36.5)		MADEP-EPH		1	JXS	03/03/16 8:24	CZC0028	CC60204
C19-C36 Aliphatics1	**57.3** (36.5)		MADEP-EPH		1	JXS	03/03/16 8:24	CZC0028	CC60204
C11-C22 Unadjusted Aromatics1	ND (36.5)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
C11-C22 Aromatics1,2	ND (36.5)		EPH8270			JXS	03/03/16 11:42		[CALC]
2-Methylnaphthalene	ND (0.49)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Acenaphthene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Naphthalene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Phenanthrene	**1.45** (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Acenaphthylene	ND (0.49)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Anthracene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Benzo(a)anthracene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Benzo(a)pyrene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Benzo(b)fluoranthene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Benzo(g,h,i)perylene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Benzo(k)fluoranthene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Chrysene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Dibenzo(a,h)Anthracene	ND (0.49)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Fluoranthene	**1.41** (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Fluorene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Indeno(1,2,3-cd)Pyrene	ND (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204
Pyrene	**1.15** (0.97)		EPH8270		1	JXS	03/03/16 11:42	CZC0043	CC60204

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*35 %*	*SM*	*40-140*
Surrogate: 2-Bromonaphthalene	*92 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*91 %*		*40-140*
Surrogate: O-Terphenyl	*41 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_EW_02-24-16
Date Sampled: 02/24/16 13:45
Percent Solids: 85
Initial Volume: 25.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (8.71)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
C5-C8 Aliphatics1,2	ND (8.71)		MADEP-VPH		1	02/26/16 17:00		[CALC]
C9-C12 Aliphatics2,3	ND (8.71)		MADEP-VPH		1	02/26/16 17:00		[CALC]
Benzene	ND (0.17)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Ethylbenzene	ND (0.17)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Methyl tert-Butyl Ether	ND (0.04)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Naphthalene	**0.42** (0.17)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Toluene	ND (0.17)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Xylene O	ND (0.17)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
Xylene P,M	ND (0.35)		MADEP-VPH		1	02/26/16 17:00	CZB0381	CB62625
1:1 Methanol/Soil Ratio %D	**69** (N/A)		MADEP-VPH			02/26/16 7:40		CB62625
Preservative:	**MeOH - covered**		MADEP-VPH					CB62625

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*96 %*		*70-130*
Surrogate: 2,5-Dibromotoluene - PID	*101 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*104 %*		*70-130*
Surrogate: Trifluorotoluene - PID	*110 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_WW_02-24-16
Date Sampled: 02/24/16 14:00
Percent Solids: 67
Initial Volume: 15.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-09
Sample Matrix: Soil
Units: mg/kg dry

Prepared: 2/25/16 18:04

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (36.8)		MADEP-EPH		1	ZLC	02/26/16 19:20	CZB0378	CB62521
C19-C36 Aliphatics1	ND (36.8)		MADEP-EPH		1	ZLC	02/26/16 19:20	CZB0378	CB62521
C11-C22 Unadjusted Aromatics1	ND (36.8)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
C11-C22 Aromatics1,2	ND (36.8)		EPH8270			VSC	02/27/16 11:57		[CALC]
2-Methylnaphthalene	ND (0.49)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Acenaphthene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Naphthalene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Phenanthrene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Acenaphthylene	ND (0.49)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Anthracene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Benzo(a)anthracene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Benzo(a)pyrene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Benzo(b)fluoranthene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Benzo(g,h,i)perylene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Benzo(k)fluoranthene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Chrysene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Dibenzo(a,h)Anthracene	ND (0.49)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Fluoranthene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Fluorene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Indeno(1,2,3-cd)Pyrene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521
Pyrene	ND (0.98)		EPH8270		1	VSC	02/27/16 11:57	CZB0420	CB62521

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*60 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*86 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*79 %*		*40-140*
Surrogate: O-Terphenyl	*75 %*		*40-140*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett
Client Sample ID: UST_WW_02-24-16
Date Sampled: 02/24/16 14:00
Percent Solids: 67
Initial Volume: 20
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 1602554
ESS Laboratory Sample ID: 1602554-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (16.1)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
C5-C8 Aliphatics1,2	ND (16.1)		MADEP-VPH		1	02/26/16 17:33		[CALC]
C9-C12 Aliphatics2,3	ND (16.1)		MADEP-VPH		1	02/26/16 17:33		[CALC]
Benzene	ND (0.32)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Ethylbenzene	ND (0.32)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Methyl tert-Butyl Ether	ND (0.08)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Naphthalene	ND (0.32)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Toluene	ND (0.32)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Xylene O	ND (0.32)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
Xylene P,M	ND (0.64)		MADEP-VPH		1	02/26/16 17:33	CZB0381	CB62625
1:1 Methanol/Soil Ratio %D	**33** (N/A)		MADEP-VPH			02/26/16 7:40		CB62625
Preservative:	**MeOH - covered**		MADEP-VPH					CB62625

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*86 %*		*70-130*
Surrogate: 2,5-Dibromotoluene - PID	*91 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*100 %*		*70-130*
Surrogate: Trifluorotoluene - PID	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CB62521 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.27*		mg/kg wet	*2.000*		*63*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.75*		mg/kg wet	*2.000*		*87*	*40-140*			
Surrogate: O-Terphenyl	*1.59*		mg/kg wet	*2.000*		*80*	*40-140*			
LCS										
C19-C36 Aliphatics1	18.3	15.0	mg/kg wet	16.00		114	40-140			
C9-C18 Aliphatics1	12.1	15.0	mg/kg wet	12.00		101	40-140			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CB62521 - 3546										
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		80	40-140			
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Octadecane (C18)	1.7	0.5	mg/kg wet	2.000		86	40-140			
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		66	40-140			
Triacontane (C30)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene	1.40	0.20	mg/kg wet	2.000		70	40-140			
Acenaphthene	1.41	0.40	mg/kg wet	2.000		71	40-140			
Acenaphthylene	1.46	0.20	mg/kg wet	2.000		73	40-140			
Anthracene	1.55	0.40	mg/kg wet	2.000		78	40-140			
Benzo(a)anthracene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Benzo(a)pyrene	1.70	0.40	mg/kg wet	2.000		85	40-140			
Benzo(b)fluoranthene	1.73	0.40	mg/kg wet	2.000		87	40-140			
Benzo(g,h,i)perylene	1.44	0.40	mg/kg wet	2.000		72	40-140			
Benzo(k)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140			
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	30.7	15.0	mg/kg wet	34.00		90	40-140			
Chrysene	1.61	0.40	mg/kg wet	2.000		80	40-140			
Dibenzo(a,h)Anthracene	1.52	0.20	mg/kg wet	2.000		76	40-140			
Fluoranthene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Fluorene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Indeno(1,2,3-cd)Pyrene	1.49	0.40	mg/kg wet	2.000		74	40-140			
Naphthalene	1.38	0.40	mg/kg wet	2.000		69	40-140			
Phenanthrene	1.59	0.40	mg/kg wet	2.000		80	40-140			
Pyrene	1.62	0.40	mg/kg wet	2.000		81	40-140			
Surrogate: 2-Bromonaphthalene	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.72*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: O-Terphenyl	*1.55*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	12.4	15.0	mg/kg wet	16.00		78	40-140	38	25	D+
C9-C18 Aliphatics1	8.5	15.0	mg/kg wet	12.00		71	40-140	35	25	D+

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Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CB62521 - 3546										
Decane (C10)	0.8	0.5	mg/kg wet	2.000		40	40-140	23	25	
Docosane (C22)	1.4	0.5	mg/kg wet	2.000		69	40-140	24	25	
Dodecane (C12)	0.9	0.5	mg/kg wet	2.000		44	40-140	22	25	
Eicosane (C20)	1.3	0.5	mg/kg wet	2.000		67	40-140	26	25	D+
Hexacosane (C26)	1.4	0.5	mg/kg wet	2.000		70	40-140	26	25	D+
Hexadecane (C16)	1.3	0.5	mg/kg wet	2.000		63	40-140	23	25	
Hexatriacontane (C36)	0.9	0.5	mg/kg wet	2.000		47	40-140	52	25	D+
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		68	40-140	25	25	
Nonane (C9)	0.6	0.5	mg/kg wet	2.000		32	30-140	21	25	
Octacosane (C28)	1.3	0.5	mg/kg wet	2.000		65	40-140	28	25	D+
Octadecane (C18)	1.3	0.5	mg/kg wet	2.000		67	40-140	24	25	
Tetracosane (C24)	1.3	0.5	mg/kg wet	2.000		66	40-140	25	25	
Tetradecane (C14)	1.1	0.5	mg/kg wet	2.000		54	40-140	22	25	
Triacontane (C30)	1.3	0.5	mg/kg wet	2.000		64	40-140	31	25	D+
Surrogate: 1-Chlorooctadecane	*1.31*		mg/kg wet	*2.000*		*65*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.54	0.20	mg/kg wet	2.000		77	40-140	10	30	
Acenaphthene	1.50	0.40	mg/kg wet	2.000		75	40-140	6	30	
Acenaphthylene	1.57	0.20	mg/kg wet	2.000		78	40-140	7	30	
Anthracene	1.61	0.40	mg/kg wet	2.000		81	40-140	4	30	
Benzo(a)anthracene	1.65	0.40	mg/kg wet	2.000		82	40-140	2	30	
Benzo(a)pyrene	1.73	0.40	mg/kg wet	2.000		87	40-140	2	30	
Benzo(b)fluoranthene	1.77	0.40	mg/kg wet	2.000		89	40-140	2	30	
Benzo(g,h,i)perylene	1.51	0.40	mg/kg wet	2.000		75	40-140	4	30	
Benzo(k)fluoranthene	1.73	0.40	mg/kg wet	2.000		87	40-140	5	30	
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	31.9	15.0	mg/kg wet	34.00		94	40-140	4	30	
Chrysene	1.68	0.40	mg/kg wet	2.000		84	40-140	5	30	
Dibenzo(a,h)Anthracene	1.65	0.20	mg/kg wet	2.000		83	40-140	8	30	
Fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140	4	30	
Fluorene	1.58	0.40	mg/kg wet	2.000		79	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	1.53	0.40	mg/kg wet	2.000		76	40-140	3	30	
Naphthalene	1.52	0.40	mg/kg wet	2.000		76	40-140	9	30	
Phenanthrene	1.67	0.40	mg/kg wet	2.000		84	40-140	5	30	
Pyrene	1.66	0.40	mg/kg wet	2.000		83	40-140	2	30	
Surrogate: 2-Bromonaphthalene	*1.73*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.77*		mg/kg wet	*2.000*		*88*	*40-140*			
Surrogate: O-Terphenyl	*1.58*		mg/kg wet	*2.000*		*79*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
Batch CC60204 - 3546										
Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC60204 - 3546										
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.38*		mg/kg wet	*2.000*		*69*	*40-140*			
Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
Surrogate: 2-Bromonaphthalene	*1.74*		mg/kg wet	*2.000*		*87*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.88*		mg/kg wet	*2.000*		*94*	*40-140*			
Surrogate: O-Terphenyl	*1.57*		mg/kg wet	*2.000*		*78*	*40-140*			
LCS										
C19-C36 Aliphatics1	15.5	15.0	mg/kg wet	16.00		97	40-140			
C9-C18 Aliphatics1	10.6	15.0	mg/kg wet	12.00		88	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		52	40-140			
Docosane (C22)	1.9	0.5	mg/kg wet	2.000		93	40-140			

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC60204 - 3546										
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		57	40-140			
Eicosane (C20)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		82	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Hexatriacontane (C36)	1.3	0.5	mg/kg wet	2.000		64	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		84	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140			
Octacosane (C28)	1.6	0.5	mg/kg wet	2.000		79	40-140			
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		64	40-140			
Triacontane (C30)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Surrogate: 1-Chlorooctadecane	*1.45*		mg/kg wet	*2.000*		*72*	*40-140*			
LCS										
2-Methylnaphthalene	1.59	0.20	mg/kg wet	2.000		79	40-140			
Acenaphthene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Acenaphthylene	1.66	0.20	mg/kg wet	2.000		83	40-140			
Anthracene	1.76	0.40	mg/kg wet	2.000		88	40-140			
Benzo(a)anthracene	1.71	0.40	mg/kg wet	2.000		86	40-140			
Benzo(a)pyrene	1.74	0.40	mg/kg wet	2.000		87	40-140			
Benzo(b)fluoranthene	1.70	0.40	mg/kg wet	2.000		85	40-140			
Benzo(g,h,i)perylene	1.82	0.40	mg/kg wet	2.000		91	40-140			
Benzo(k)fluoranthene	1.79	0.40	mg/kg wet	2.000		89	40-140			
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	31.8	15.0	mg/kg wet	34.00		94	40-140			
Chrysene	1.75	0.40	mg/kg wet	2.000		87	40-140			
Dibenzo(a,h)Anthracene	1.78	0.20	mg/kg wet	2.000		89	40-140			
Fluoranthene	1.77	0.40	mg/kg wet	2.000		88	40-140			
Fluorene	1.68	0.40	mg/kg wet	2.000		84	40-140			
Indeno(1,2,3-cd)Pyrene	1.73	0.40	mg/kg wet	2.000		87	40-140			
Naphthalene	1.52	0.40	mg/kg wet	2.000		76	40-140			
Phenanthrene	1.79	0.40	mg/kg wet	2.000		90	40-140			
Pyrene	1.79	0.40	mg/kg wet	2.000		89	40-140			
Surrogate: 2-Bromonaphthalene	*1.75*		mg/kg wet	*2.000*		*88*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*1.81*		mg/kg wet	*2.000*		*91*	*40-140*			
Surrogate: O-Terphenyl	*1.60*		mg/kg wet	*2.000*		*80*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	16.8	15.0	mg/kg wet	16.00		105	40-140	8	25	
C9-C18 Aliphatics1	12.6	15.0	mg/kg wet	12.00		105	40-140	17	25	
Decane (C10)	1.3	0.5	mg/kg wet	2.000		66	40-140	22	25	
Docosane (C22)	2.0	0.5	mg/kg wet	2.000		100	40-140	8	25	

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Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CC60204 - 3546										
Dodecane (C12)	1.4	0.5	mg/kg wet	2.000		69	40-140	20	25	
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		91	40-140	7	25	
Hexacosane (C26)	1.7	0.5	mg/kg wet	2.000		87	40-140	6	25	
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		85	40-140	11	25	
Hexatriacontane (C36)	1.3	0.5	mg/kg wet	2.000		66	40-140	4	25	
Nonadecane (C19)	1.8	0.5	mg/kg wet	2.000		90	40-140	7	25	
Nonane (C9)	1.0	0.5	mg/kg wet	2.000		50	30-140	23	25	
Octacosane (C28)	1.7	0.5	mg/kg wet	2.000		84	40-140	6	25	
Octadecane (C18)	2.0	0.5	mg/kg wet	2.000		99	40-140	8	25	
Tetracosane (C24)	1.7	0.5	mg/kg wet	2.000		83	40-140	7	25	
Tetradecane (C14)	1.5	0.5	mg/kg wet	2.000		77	40-140	18	25	
Triacontane (C30)	1.6	0.5	mg/kg wet	2.000		81	40-140	6	25	
Surrogate: 1-Chlorooctadecane	*1.53*		mg/kg wet	*2.000*		*77*	*40-140*			
LCS Dup										
2-Methylnaphthalene	1.81	0.20	mg/kg wet	2.000		91	40-140	13	30	
Acenaphthene	1.78	0.40	mg/kg wet	2.000		89	40-140	11	30	
Acenaphthylene	1.83	0.20	mg/kg wet	2.000		92	40-140	10	30	
Anthracene	1.83	0.40	mg/kg wet	2.000		92	40-140	4	30	
Benzo(a)anthracene	1.67	0.40	mg/kg wet	2.000		84	40-140	2	30	
Benzo(a)pyrene	1.68	0.40	mg/kg wet	2.000		84	40-140	4	30	
Benzo(b)fluoranthene	1.66	0.40	mg/kg wet	2.000		83	40-140	3	30	
Benzo(g,h,i)perylene	1.77	0.40	mg/kg wet	2.000		88	40-140	3	30	
Benzo(k)fluoranthene	1.74	0.40	mg/kg wet	2.000		87	40-140	2	30	
C11-C22 Aromatics1,2	ND	15.0	mg/kg wet							
C11-C22 Unadjusted Aromatics1	31.9	15.0	mg/kg wet	34.00		94	40-140	0.3	30	
Chrysene	1.76	0.40	mg/kg wet	2.000		88	40-140	0.9	30	
Dibenzo(a,h)Anthracene	1.67	0.20	mg/kg wet	2.000		83	40-140	7	30	
Fluoranthene	1.83	0.40	mg/kg wet	2.000		91	40-140	3	30	
Fluorene	1.84	0.40	mg/kg wet	2.000		92	40-140	9	30	
Indeno(1,2,3-cd)Pyrene	1.62	0.40	mg/kg wet	2.000		81	40-140	7	30	
Naphthalene	1.77	0.40	mg/kg wet	2.000		88	40-140	15	30	
Phenanthrene	1.90	0.40	mg/kg wet	2.000		95	40-140	6	30	
Pyrene	1.83	0.40	mg/kg wet	2.000		92	40-140	2	30	
Surrogate: 2-Bromonaphthalene	*1.71*		mg/kg wet	*2.000*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*2.06*		mg/kg wet	*2.000*		*103*	*40-140*			
Surrogate: O-Terphenyl	*1.67*		mg/kg wet	*2.000*		*84*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	
MADEP-VPH Volatile Petroleum Hydrocarbon										
Batch CB62625 - 5035										
Blank										
1,2,4-Trimethylbenzene	ND	0.20	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

MADEP-VPH Volatile Petroleum Hydrocarbon

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch CB62625 - 5035										
2,2,4-Trimethylpentane	ND	5.00	mg/kg wet							
2-Methylpentane	ND	5.00	mg/kg wet							
Benzene	ND	0.20	mg/kg wet							
C5-C8 Aliphatics1,2	ND	10.0	mg/kg wet							
C5-C8 Unadjusted Aliphatics	ND	10.0	mg/kg wet							
C9-C10 Aromatics	ND	10.0	mg/kg wet							
C9-C12 Aliphatics2,3	ND	10.0	mg/kg wet							
C9-C12 Unadjusted Aliphatics	ND	10.0	mg/kg wet							
Ethylbenzene	ND	0.20	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.05	mg/kg wet							
Naphthalene	ND	0.20	mg/kg wet							
n-Butylcyclohexane	ND	5.00	mg/kg wet							
n-Decane	ND	5.00	mg/kg wet							
Nonane (C9)	ND	5.00	mg/kg wet							
Pentane	ND	5.00	mg/kg wet							
Toluene	ND	0.20	mg/kg wet							
Xylene O	ND	0.20	mg/kg wet							
Xylene P,M	ND	0.40	mg/kg wet							
Surrogate: 2,5-Dibromotoluene - FID	*4.56*		mg/kg wet	*5.000*		*91*	*70-130*			
Surrogate: 2,5-Dibromotoluene - PID	*4.73*		mg/kg wet	*5.000*		*95*	*70-130*			
Surrogate: Trifluorotoluene - FID	*4.29*		mg/kg wet	*5.333*		*81*	*70-130*			
Surrogate: Trifluorotoluene - PID	*4.45*		mg/kg wet	*5.333*		*83*	*70-130*			
LCS										
1,2,4-Trimethylbenzene	9.35	0.20	mg/kg wet	10.00		93	70-130			
2,2,4-Trimethylpentane	13.6	5.00	mg/kg wet	15.00		91	70-130			
2-Methylpentane	13.9	5.00	mg/kg wet	15.00		93	70-130			
Benzene	4.75	0.20	mg/kg wet	5.000		95	70-130			
C5-C8 Aliphatics1,2	ND	10.0	mg/kg wet							
C5-C8 Unadjusted Aliphatics	36.6	10.0	mg/kg wet	40.00		92	70-130			
C9-C10 Aromatics	9.27	10.0	mg/kg wet	10.00		93	70-130			
C9-C12 Aliphatics2,3	ND	10.0	mg/kg wet							
C9-C12 Unadjusted Aliphatics	25.0	10.0	mg/kg wet	30.00		83	70-130			
Ethylbenzene	4.87	0.20	mg/kg wet	5.000		97	70-130			
Methyl tert-Butyl Ether	14.9	0.05	mg/kg wet	15.00		100	70-130			
Naphthalene	9.41	0.20	mg/kg wet	10.00		94	70-130			
n-Butylcyclohexane	8.08	5.00	mg/kg wet	10.00		81	70-130			
n-Decane	9.27	5.00	mg/kg wet	10.00		93	70-130			
Nonane (C9)	7.72	5.00	mg/kg wet	10.00		77	30-130			
Pentane	10.1	5.00	mg/kg wet	10.00		101	70-130			
Toluene	13.9	0.20	mg/kg wet	15.00		93	70-130			
Xylene O	9.39	0.20	mg/kg wet	10.00		94	70-130			
Xylene P,M	18.8	0.40	mg/kg wet	20.00		94	70-130			
Surrogate: 2,5-Dibromotoluene - FID	*4.80*		mg/kg wet	*5.000*		*96*	*70-130*			
Surrogate: 2,5-Dibromotoluene - PID	*4.94*		mg/kg wet	*5.000*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-VPH Volatile Petroleum Hydrocarbon										
Batch CB62625 - 5035										
Surrogate: Trifluorotoluene - FID	*4.85*		mg/kg wet	*5.333*		*91*	*70-130*			
Surrogate: Trifluorotoluene - PID	*5.11*		mg/kg wet	*5.333*		*96*	*70-130*			
LCS Dup										
1,2,4-Trimethylbenzene	9.11	0.20	mg/kg wet	10.00		91	70-130	3	25	
2,2,4-Trimethylpentane	12.6	5.00	mg/kg wet	15.00		84	70-130	8	25	
2-Methylpentane	12.5	5.00	mg/kg wet	15.00		84	70-130	11	25	
Benzene	4.68	0.20	mg/kg wet	5.000		94	70-130	1	25	
C5-C8 Aliphatics1,2	ND	10.0	mg/kg wet							
C5-C8 Unadjusted Aliphatics	34.9	10.0	mg/kg wet	40.00		87	70-130	5	25	
C9-C10 Aromatics	8.87	10.0	mg/kg wet	10.00		89	70-130	4	25	
C9-C12 Aliphatics2,3	ND	10.0	mg/kg wet							
C9-C12 Unadjusted Aliphatics	22.7	10.0	mg/kg wet	30.00		76	70-130	10	25	
Ethylbenzene	4.76	0.20	mg/kg wet	5.000		95	70-130	2	25	
Methyl tert-Butyl Ether	14.8	0.05	mg/kg wet	15.00		99	70-130	0.7	25	
Naphthalene	9.28	0.20	mg/kg wet	10.00		93	70-130	1	25	
n-Butylcyclohexane	7.61	5.00	mg/kg wet	10.00		76	70-130	6	25	
n-Decane	8.74	5.00	mg/kg wet	10.00		87	70-130	6	25	
Nonane (C9)	7.05	5.00	mg/kg wet	10.00		70	30-130	9	25	
Pentane	9.22	5.00	mg/kg wet	10.00		92	70-130	9	25	
Toluene	13.7	0.20	mg/kg wet	15.00		91	70-130	2	25	
Xylene O	9.22	0.20	mg/kg wet	10.00		92	70-130	2	25	
Xylene P,M	18.3	0.40	mg/kg wet	20.00		92	70-130	2	25	
Surrogate: 2,5-Dibromotoluene - FID	*5.04*		mg/kg wet	*5.000*		*101*	*70-130*			
Surrogate: 2,5-Dibromotoluene - PID	*5.18*		mg/kg wet	*5.000*		*104*	*70-130*			
Surrogate: Trifluorotoluene - FID	*4.71*		mg/kg wet	*5.333*		*88*	*70-130*			
Surrogate: Trifluorotoluene - PID	*4.89*		mg/kg wet	*5.333*		*92*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

Notes and Definitions

Z-04	MeOH - covered
U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
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

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: Wynn Everett

ESS Laboratory Work Order: 1602554

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/water/dwp-services/labcert/documents/AllLabs.xls

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.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Norwood, MA - GZA/CMT

Shipped/Delivered Via: ESS Courier

ESS Project ID: 1602554
Date Received: 2/25/2016
Project Due Date: ~~3/3/2016~~ 3.7.16 (11)
Days for Project: ~~5 Day~~ 5 DAY - 2.25.16

1. Air bill manifest present? Yes
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 2.6 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? No
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 VOAs brought to freezer: Date: Time: By:

Sample Receiving Notes:

(1) RECEIVED TRIP BLANK NOT ON COC. (11) 2.25.16
(2) NO % SOLIDS RECEIVED FOR VPH SAMPLES 2,4,6,8,10

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? Dave Leonne/Kyle Maxfield Date: 2/26/16 Time: By: 2/26/16

Do not run Trip Blank
Provided information on missing % solids

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	11922	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	11927	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
03	11921	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	11926	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
05	11920	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	11925	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
07	11919	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	11924	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
09	11918	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	11923	Yes	NA	Yes	VOA Vial - Methanol	MeOH	

2nd Review
Are barcode labels on correct containers? Yes / No

Completed By: Date & Time: 2.25.16 1715
Reviewed By: Date & Time: 2/25/16 1725

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard (Other) 48-72 HOURS
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
(MA) RI CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP* Navy USACE Other _____

Reporting Limits: RCS-2

ESS LAB PROJECT ID: 16025554

Electronic Deliverable: X Yes ___ No Format PDF/EXCEL

Co. Name: GZA	Project #: 171521.41 Task2	Project Name (20 Char. or less): WYNN EVERETT	
Contact Person: Matt Smith	Address: 249 Vanderbilt Avenue		
City: Norwood	State: MA	Zip: 02062	PO#:
Telephone #: 781-278-5879	Fax #:	Email Address: matthew.smith@gza.com	

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	Circle and/or Write Required Analysis	NOTES.
1	02/24/2016	1250	X		S	UST_NW_02.24.16	1	AG	8100 TPH X	1.
2	02/24/2016	1250		X	S	~~NW_UST_02.24.16~~ UST_NW_02.24.16	1	V	8021 MTBE/BTEX X	
3	02/24/2016	1315	X		S	UST_BTM_02.24.16	1	AG	8100 TPH X	1.
4	02/24/2016	1315		X	S	~~BTM_UST_02.24.16~~ UST_BTM_02.24.16	1	V	8021 MTBE/BTEX X	
5	02/24/2016	1330	X		S	UST_SW_02.24.16	1	AG	8100 TPH X	1.
6	02/24/2016	1330		X	S	~~SW_UST_02.24.16~~ UST_SW_02.24.16	1	V	8021 MTBE/BTEX X	
7	02/24/2016	1345	X		S	UST_EW_02.24.16	1	AG	8100 TPH X	1.
8	02/24/2016	1345		X	S	~~EW_UST_02.24.16~~ UST_EW_02.24.16	1	V	8021 MTBE/BTEX X	
9	02/24/2016	1400	X		S	UST_WW_02.24.16	1	AG	8100 TPH X	1.
10	02/24/2016	1400		X	S	~~WW_UST_02.24.16~~ UST_WW_02.24.16	1	V	8021 MTBE/BTEX X	

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 2.6 ICE KH

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments: 1. PLEASE TAKE MATERIAL FROM EPH AG JAR FOR % SOLIDS ANALYSIS.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
KL 2 KH	02/25/16 1331	K. Hallahan	2/25/16 1331	K. Hallahan	2/25/16 1636	[illegible]	2-25-16 1710
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

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185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: ___ Standard (Other) 48-72 Hours
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: (MA) RI CT NH NJ NY ME Other _____
Is this project for any of the following: MA-MCP* Navy USACE Other _____

Reporting Limits: RCS-2

ESS LAB PROJECT ID: L6002554

Electronic Deliverable: X Yes ___ No Format PDF/Excel

Co. Name	Project #	Project Name (20 Char. or less)
GZA	171521.41 Task2	WYNN EVERETT

Contact Person	Address
Matt Smith	249 Vanderbilt Avenue

City	State	Zip	PO#
Norwood	MA	02062	

Telephone #	Fax #	Email Address
781-278-5879		matthew.smith@gza.com

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	8260 / 624 / 524.2	8021 MTBE/BTEX	(VPH) 8015 GRO	8100 TPH / 8015 DRO	(EPH) No Targets	8081 Pesticides	8082 PCB	608 Pesticides	608 PCB	8270	625	PAH only	RCRA5	RCRA8	PP13	TAL23	TCLP8	MCP	MCPw/Hg	NBC7
1	02/24/2016	1250	X		S	VST_NW_02.24.16	1	AG				X	X															
2	02/24/2016	1250		X	S	NW_VST_02.24.16	1	V			X																	
3	02/24/2016	1315	X		S	VST_BTM_02.24.16	1	AG				X	X																
4	02/24/2016	1315		X	S	BTM_VST_02.24.16	1	V			X																	
5	02/24/2016	1330	X		S	VST_SW_02.24.16	1	AG				X	X																
6	02/24/2016	1330		X	S	SW_VST_02.24.16	1	V			X																	
7	02/24/2016	1345	X		S	VST_EW_02.24.16	1	AG				X	X																
8	02/24/2016	1345		X	S	EW_VST_02.24.16	1	V			X																	
9	02/24/2016	1400	X		S	VST_WW_02.24.16	1	AG				X	X																
10	02/24/2016	1400		X	S	WW_VST_02.24.16	1	V			X																	

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ✓ Yes ___ No
Seals Intact: ___ Yes ___ No NA: ✓
Cooler Temp: 2.6 ICE KH

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	02/26/16 1331	[signature]	2/26/16 1331	[signature]	2/26/16 1636	[signature]	2/25/16 1710
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt