

Proactive by Design

GEOTECHNICAL ENVIRONMENTAL ECOLOGICAL WATER CONSTRUCTION MANAGEMENT

249 Vanderbilt Avenue Norwood, MA 02062 T: 781.278.3700 F: 781.278.5701 F: 781.278.5702 www.gza.com July 23, 2018 GZA File No: 01.00171521.52

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

Re: Immediate Response Action Plan East Shoreline Concentrated Flow of Tidal Flux Water (Former) Everett Staging Yard 1 Horizon Way Everett, Massachusetts Release Tracking Number 3-34943

To Whom It May Concern:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Wynn MA, LLC (Wynn MA), has prepared this Immediate Response Action (IRA) Plan to describe those Preliminary Response Actions pursuant to the Massachusetts Contingency Plan (MCP) that will be completed to address the observed concentrated flow of tidal flux water from the shoreline/tidal flat interface on the east side of the Site, south of the constructed wharf/bulkhead structures, which has been identified by the Massachusetts Department of Environmental Protection (MassDEP) as a Condition of Substantial Release Migration. The concentrated flow was observed during a period of outgoing tidal flow while ongoing Release Abatement Measure (RAM) activities were being conducted at the disposal site as part of MCP Response Actions associated with Release Tracking Number (RTN) 3-13341.

This IRA Plan has been prepared in accordance with 310 CMR 40.0424 of the MCP, and with the Limitations in Appendix A. This IRA Plan will be submitted electronically through the eDEP online filing system. A copy of the IRA transmittal form (BWSC-105) is included in Appendix B. A Release Notification Form (RNF) is being submitted concurrently with this IRA Plan; a copy of the RNF (BWSC-103) is also included in Appendix B. The required notification to municipal officers will be prepared and transmitted following submission of this IRA Plan to MassDEP.

The disposal site under RTN 3-13341 has been designated as a Public Involvement Plan (PIP) Site in accordance with Section 40.1404 of the MCP. The response actions described herein are consistent with ongoing RAM activities at the Site. The existing RAM plan and PIP considered the potential for IRAs to be necessary as construction and site development activities progressed, and the RAM included a prospective IRA Plan. Based on the guidelines established in the PIP, written notification of the availability of this IRA Plan will be provided to the PIP distribution list, and a public meeting will be held to discuss this condition, if requested.





EXECUTIVE SUMMARY

In May, 2018, Mr. Andrew Clark of MassDEP visited the Site to observe the condition of the dredge cap material that had eroded. During this site visit, Mr. Clark observed a concentrated flow of water emanating from the edge of the living shoreline at the base of the coir rock roll in the area where the dredge cap soils had eroded away from the water side of the coir rock roll. Mr. Clark expressed his concern that the flow of water could be transporting contamination from the Site into the Mystic River as surface water flow. He requested that GZA obtain a sample of the water and submit the sample for laboratory analysis for Site contaminants of concern.

GZA collected the requested water sample from the concentrated flow area. The sample was submitted to Alpha Analytical of Westborough, Massachusetts for laboratory testing.

Laboratory testing data was provided to MassDEP on May 24, 2018. Based on the presence of detectable levels of Site contaminants in the concentrated flow, MassDEP indicated that it considered this to be a Condition of Substantial Release Migration to the Mystic River from the Site. Verbal release notification of the Condition of Substantial Release Migration to MassDEP was made to MassDEP by GZA (on behalf of Wynn MA, LLC) on Friday, May 25, 2018.

This IRA Plan outlines procedures for addressing the Condition of Substantial Release Migration.

IRA PLAN

The following sections provide IRA Plan information in accordance with 310 CMR 40.0424.

THE NAME, ADDRESS, TELEPHONE NUMBER AND RELATIONSHIP TO THE SITE OF THE PERSON ASSUMING RESPONSIBILITY FOR CONDUCTING THE IMMEDIATE RESPONSE ACTION [310 CMR 40.0424(1)(A)]:

The entity assuming responsibility for this IRA is Wynn MA, LLC. Information for Wynn MA's contact person is provided below:

Mr. Robert DeSalvio President Wynn MA, LLC 101 Station Landing, 2nd Floor Medford, Massachusetts 02155 Tel: 857-770-7801

DESCRIPTION OF RELEASE, SITE CONDITIONS AND SURROUNDING RECEPTORS [310 CMR 40.0424(1)(B)]

The following sections provide a description of the Site and surrounding area conditions, and a description of the release.

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 observed concentrated flow of water is shown on Figure 2. The approximate latitude and longitude for the location of the concentrated flow of water are 42.3933 degrees north and 71.0714 degrees west, respectively. The Universal Transverse Mercator (UTM) coordinates are 4,695,523 meters north and 329,508 meters east. Access to the property is limited by the presence of a chain-link fence with two security gates that are manned 24 hours a day, seven days a week;



one gate is in the northern portion of the property, west of the MBTA property, and the second gate is located on the eastern side of the Site proximate to Horizon Way. A resort casino building is under construction on the property; the surrounding ground surface at the property is generally bituminous pavement, unpaved, or compacted coarse gravel. The ground surface at the property is currently highest proximate to the resort casino building, and slopes downward from that area to the east and south towards the Mystic River. Current ground surface elevations at the Site, based on the NAVD 88 datum, range from 15 feet (proximate to the building) to elevation 10 feet proximate to the top of the Coastal Bank. Grades slope downward to about elevation 4.35 feet from the top of Coastal Bank to the bottom of the living shoreline. The observed concentrated flow of water emanates at approximately elevation 2.35 to 3 feet.

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 below ground surface. 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.

According to a Massachusetts Geographic Information System (MassGIS) map, a copy of which is included in Appendix C, 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. These activities were completed in May 2016, with a RAM Completion Report submitted to MassDEP on August 4, 2016. Redevelopment of the Site for construction of the resort casino building and associated utility installation, roadway construction, and grading operation are being performed under a second RAM plan submitted to MassDEP on May 2, 2016, and modified by RAM Plan Modifications on November 16, 2016, February 2, 2017, and November 1, 2017. The active RAM Plan at the property addresses the management and disposal of excess soils from the Site, the treatment and discharge of impacted groundwater as necessary to perform excavation and construction activities below the groundwater table, and the installation of engineering controls to mitigate future exposures to contaminated soils.

RELEASE HISTORY

On May 11, 2018, Mr. Andrew Clark of MassDEP observed a concentrated flow of water emanating from the interface of the bottom of the coir rock roll and the exposed subsurface sediment on the water side of the coir rock roll during the



outgoing tidal cycle. On May 15, 2018 Mr. Clark requested that GZA sample the observed concentrated flow of water. GZA's field engineer collected a water sample on May 16, 2018. The sample was submitted to Alpha Analytical Laboratory in Westborough, Massachusetts for analysis of dissolved antimony, arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, selenium, silver, vanadium, and zinc.

GZA received and reviewed the laboratory test results (included in Appendix D) on May 22, 2018 and transmitted the data to MassDEP on May 24, 2018. GZA initially compared the concentrations to applicable groundwater quality standards for the Site. However, MassDEP indicated the concentrated flow of water was surface water as soon as it emanated from below the coir rock roll. Based on the presence of detectable levels of Site contaminants in the concentrated flow, MassDEP indicated that it considered this to be a Condition of Substantial Release Migration to the Mystic River from the Site. Verbal release notification of the Condition of Substantial Release Migration to MassDEP was made to MassDEP by GZA (on behalf of Wynn MA, LLC) on Friday, May 25, 2018.

A DESCRIPTION OF THE IMMEDIATE RESPONSE ACTIONS UNDERTAKEN TO DATE AT THE SITE [310 CMR 40.0424(1)(C)]

No immediate response actions have been undertaken at the Site with the exception of the surface water sampling and testing discussed above.

THE REASON WHY AN IMMEDIATE RESPONSE ACTION IS REQUIRED [310 CMR 40.0424(1)(D)]

The IRA is required to assess release conditions associated with the concentrated flow of water from the area of the coir rock roll to the Mystic River.

OBJECTIVE, PLAN, AND SCHEDULE [310 CMR 40.0424(1)(E)]

The objective of the IRA is to assess the Condition of Substantial Release Migration and evaluate the need for actions to be taken to mitigate the observed concentrated flow of water.

As part of the ongoing Response Actions being conducted under RTN 3-13341, dredge cap soils that had previously eroded from the eastern shoreline area (approximately 50 to 200 feet south of the wharf) will be replaced with materials that are more resistant to such erosion. GZA anticipates that installation of the new dredge cap soil will effectively eliminate the concentrated flow. The replacement of dredge cap soils is contingent upon approval from the applicable regulatory agencies, including MassDEP; however, GZA anticipates that the work will be completed during the month of August, 2018. Upon completion of these activities, GZA intends to submit an IRA Completion Report and link this release (3-34943) with the RTN for the larger property. The existing data collected from the concentrated flow of water will be included within the risk characterization and Permanent Solution Statement for the larger property, as appropriate.

STATEMENT REGARDING REMEDIATION WASTE [310 CMR 40.0424(1)(F)]

No remediation waste has been generated or is anticipated to be generated for the described IRA activities.

ENVIRONMENTAL MONITORING PLAN [310 CMR 40.0424(1)(G)]

Ongoing environmental monitoring for RAM activities under RTN 3-13341 includes PM10 dust monitoring using hand held and stationary perimeter dust meters. We do not anticipate any additional environmental monitoring for this IRA.



FEDERAL, STATE AND/OR LOCAL PERMITS [310 CMR 40.0424(1)(H)]

Ongoing remediation under RTN 3-13341 is being conducted under a Wetlands Protection Act (WPA) Order of Conditions (OOC, MassDEP File # 022-0098). The IRA activities described above are consistent with those remediation activities included in the OOC. The IRA activities described above are also consistent with other permits required for the dredge cap repair work (including OOC, MassDEP File #022-0109), which will be performed by others.

GZA did not identify additional permit requirements for this work.

SEAL AND SIGNATURE OF LSP [310 CMR 40.0424(1)(I)]

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

OTHER INFORMATION [310 CMR 40.0424(1)(J)]

Other information was not identified that would be deemed appropriate for review by MassDEP in connection with this IRA Plan.

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.

Matthew Smith Associate Principal

Lawrence Feldman

Senior Principal

On

David E. Leone Consultant/Reviewer

Attachments: Figure 1 – Site Locus Figure 2 – Site Plan Appendix A – Limitations Appendix B – Transmittal Forms BWSC-103 and BWSC Form-105 Appendix C – MassGIS Map Appendix D – Concentrated Flow Laboratory Analytical Data



Figures





for IRA Plan Submittal.



General Notes:

Project Title: Wynn Boston Harbor Everett, MA

um.

Project Client: Wynn Design & Development 734 Pilot Road Las Vegas, Nevada 89119 P 702.770.5000 F 702.770.5003

CONSTRUCTION DOCUMENTS 2016-09-16



Key Plan:



| Project No.: | L1009100 |
|--------------|-------------------------------|
| Copyright: | 2015 Jacobs Engineering Group |
| | |
| Drawing Shee | t Title: |

LIVING SHORELINE LAYOUT AND **GRADING PLAN**

Drawing Sheet Number: W.1201.S



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.

RISK CHARACTERIZATION

15. 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



GEOHYDROLOGICAL LIMITATIONS 01.0171521.15 A / 3 April 2012

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 – Transmittal Forms BWSC-103 and BWSC Form-105

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Massachusetts Department of Environmental Protection *Bureau of Waste Site Cleanup* **RELEASE NOTIFICATION & NOTIFICATION**

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

3

- 34943

A. RELEASE OR THREAT OF RELEASE LOCATION:

RETRACTION FORM

| 1. Release Name/Location | n Aid: | ENCORE BOSTON HARBOR | | |
|--------------------------|----------------|----------------------|-----------------|-----------|
| 2. Street Address: | 1 HORIZON WA | Υ | | |
| 3. City/Town: | EVERETT | | 4. ZIP Code: | 021490000 |
| 5. Coordinates: | a. Latitude: N | 42.39330 | b. Longitude: W | 71.07140 |

B. THIS FORM IS BEING USED TO: (check one)

▼ 1. Submit a **Release Notification**

2. Submit a Revised Release Notification

3. Submit a Retraction of a Previously Reported Notification of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

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

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

| 1. Date and time of Oral Notification, if applicable: | | 5/25/2018 | | Time: | 03:15 | □ AM | □ PM |
|--|---|--------------------|----|-----------|---------------------------|---|-------------|
| | | mm/dd/yyy | уу | | hh:mm | | |
| 2. Date and time you obtained knowledge of the Release or TOR: | | 5/25/2018 | | Time: | 10:00 | AM | ГРМ |
| | | mm/dd/yyy | vv | | hh:mm | | |
| 3. Date and time release or TOR occurred, if | known: | | | Time: | | □ AM | □РМ |
| Check all Notification Thresholds that apply (for more information see 310 CMR 40.0310 - | | mm/dd/yyy ease: | уу | | hh:mm | | |
| 4.2 HOUR REPORTING CONDITIONS | 5. 72 HOUR REPORTING CO | ONDITIONS | 6. | 120 DAY | REPORTIN | IG CONDITI | ONS |
| a. Sudden Release | a. Subsurface Non-Aque Liquid (NAPL) Equal to o 1/2 Inch (.04 feet) | | | Soil or C | | dous Materia Exceeding tration(s) | al(s) to |
| ☐ b. Threat of Sudden Release | b. Underground Storage T Release | Sank (UST) | | Reportal | ole Concen | Soil Exceedin tration(s) and n 2 Cubic Ya | d |
| C. Oil Sheen on Surface Water | C. Threat of UST Release | | | | | Groundwater ole Concentr | |
| Difference de la construction de | d. Release to Groundwate Supply | r near Water | | Liquid (1 | NAPL) Equ (.01 feet) a | Aqueous Ph al to or Grea nd Less than | ter than |
| e. Could Pose Imminent Hazard | e. Substantial Release Mi | gration | | () | | | |
| f. Release Detected in Private Well | | | | | | | |
| g. Release to Storm Drain | | | | | | | |
| h. Sanitary Sewer Release (Imminent Hazard Only) | | | | | | | |



Release Tracking Number

3 - 34943

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

Check here if an amount or concentration is unknown or less than detectable.

| O or HM Released | CAS Number, if known | O or HM | Amount or Concentration | | RCs Exceeded, if Applicable (RCS-1, RCS-2,RCGW-1, RCGW-2) |
|------------------|-------------------------|---------|----------------------------|------|---|
| COPPER | 07440-50-8 | HM | 21 | UG/L | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

Check here if a list of additional Oil and Hazardous Materials subject to reporting, or any other documentation relating to this notification is attached.

D. PERSON REQUIRED TO NOTIFY:

| 1. Check all that apply: | 🗹 a. change i | n contact name | 🗆 b. cha | nge of address | C. change in the | person notifying |
|---------------------------|---|----------------------|--------------|---------------------|----------------------|---------------------------|
| 2. Name of Organization | WYNN MA | LLC | | | | |
| 3. Contact First Name: | ROBERT | | | 4. Last Name: | DESALVIO | |
| 5. Street: | 101 STATION LANE | DING SUITE #220 | | 6. Title: | PRESIDENT | |
| 7. City/Town: MEDF | ORD | 8. State: | MA | | 9. ZIP Code: | 021550000 |
| 10. Telephone: 857-7 | 70-7801 | 11. Ext.: | | 12. Email: | robert.desalvio@ | encorebostonharbor.com |
| | ttaching names and a hitting this Release No. | | | ies affected by the | he Release or Threat | of Release, other than an |
| E. RELATIONSHIP | OF PERSON TO |) RELEASE OR | THRE | T OF RELEA | ASE: Check here | e to change relationship |
| \checkmark 1. RP or PRP | a. Owner | b. Operator | □ c. 0 | Generator [| d. Transporter | |
| | e. Other RP or PRP | Specify: | | | | |
| 2. Fiduciary, Secur | red Lender or Municip | bality with Exempt S | Status (as d | efined by M.G.L | . c. 21E, s. 2) | |
| 3. Agency or Publi | c Utility on a Right of | f Way (as defined by | y M.G.L. c | . 21E, s. 5(j)) | | |
| 4. Any Other Pers | on Otherwise Require | ed to Notify S | Specify Rel | ationship: | | |



BWSC 103

Release Tracking Number

34943

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F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

, attest under the pains and penalties of perjury (i) that I have personally 1. I. ROBERT DESALVIO 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 those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is 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 |
|---------|--|-----------|------------|
| | Signature | | |
| 4. For: | WYNN MA LLC | 5. Date : | 7/23/2018 |
| | (Name of person or entity recorded in Section D) | | mm/dd/yyyy |

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

| 7. Street: | | | | |
|----------------|-----------|-----------|------------|---------------|
| 8. City/Town: | | 9. State: | | 10. ZIP Code: |
| 11. Telephone: | 12. Ext.: | | 13. Email: | |

YOU ARE SUBJECT TO ANNUAL COMPLIANCE ASSURANCE FEES FOR EACH BILLABLE YEAR FOR TIER CLASSIFIED DISPOSAL SITES. 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 b | y DEP or | n 7/24/20 | 18 7:52:0 | 1 AM |
|------------|----------|-----------|-----------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Xa | Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup | BWSC 105 |
|---|--|---|
| N. | Immediate Response Action (IRA) Transmittal Form Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D) | Release Tracking Number 3 - 34943 |
| A. SITE LOCATIO | ON: | |
| 1. Release Name/Loo | cation Aid: ENCORE BOSTON HARBOR | |
| 2. Street Address: | 1 HORIZON WAY | |
| 3. City/Town: | EVERETT 4. Zip Code: 02149 | 90000 |
| - | this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. | |
| | | |
| a. CERCLA | \Box b. HSWA Corrective Action \Box c. Solid Waste Management | |
| d. RCRA S | tate Program (21C Facilities) | |
| | S BEING USED TO: (check all that apply) e of Initial IRA Written Plan (if previously submitted): | |
| 2. Submit an Ini | tial IRA Plan. | |
| 3. Submit a Mod | ified IRA Plan of a previously submitted written IRA Plan. | |
| 4. Submit an Im | minent Hazard Evaluation. (check one) | |
| 🗖 a. An Immin | ent Hazard exists in connection with this Release or Threat of Release. | |
| | ent Hazard does not exist in connection with this Release or Threat of Release. | |
| c. It is unknown c. It | own whether an Imminent Hazard exists in connection with this Release or Threat of F e undertaken. | Release, and further assessment |
| | own whether an Imminent Hazard exists in connection with this Release or Threat of R see conditions that could pose an Imminent Hazard. | Release. However, response actions |
| 5. Submit a requ | est to Terminate an Active Remedial System or Response Action(s) Taken to Addres | s an Imminent Hazard. |
| 6. Submit an IR | A Status Report | |
| 7. Submit a Rem | edial Monitoring Report. (This report can only be submitted through eDEP.) | |
| a. Type of Repo | rt: (check one) 🔲 i. Initial Report 🗍 ii. Interim Report 🗍 iii. Fin | al Report |
| b. Frequency of | Submittal: (check all that apply) | |
| 🗌 i. A Remedia | al Monitoring Report(s) submitted monthly to address an Imminent Hazard. | |
| 🗌 ii. A Remedi | al Monitoring Report(s) submitted monthly to address a Condition of Substantial Rele | ease Migration. |
| 🗌 iii. A Remed | ial Monitoring Report(s) submitted every six months, concurrent with an IRA Status R | leport. |
| iv. A Remed | ial Monitoring Report(s) submitted annually, concurrent with an IRA Status Report. | |
| c. Number of Ro | emedial Systems and/or Monitoring Programs: | |
| | SC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial Syste is transmittal form. | m and/or Monitoring Program |



Massachusetts Department of Environmental Protection *Bureau of Waste Site Cleanup*

BWSC 105

| Release ' | Tracking | Num | ber |
|-----------|----------|-----|-----|
| | | | |

| 3 | - | 34943 |
|---|---|-------|
|---|---|-------|

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

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)

| àce 🗌 b. Basement 🗌 c. School | | | |
|---|--|--|--|
| ell 🗆 h. Residence 🗔 i. Soil | | | |
| in 🗌 n. Indoor Air 🗌 o. Air | | | |
| s. NAPL It. Unknown | | | |
| | | | |
| 🗆 b. Fuel Tank 🛛 C. Pipe | | | |
| ick h. Hose i. Line | | | |
| k. Vehicle I. Boat/Vessel | | | |
| | | | |
| C. AST Removal d. Overfill | | | |
| 🗌 i. Test failure 🔲 j. TOR Only | | | |
| | | | |
| L Unknown I m. Other: HISTORIC MANUFACTURING | | | |
| | | | |
| Dils b . Chlorinated Solvents | | | |
| Dils b. Chlorinated Solvents | | | |
| Dils Dils Divents | | | |
| | | | |
| nulative amounts) | | | |
| nulative amounts) vers or Caps | | | |
| nulative amounts) vers or Caps ter Supplies | | | |
| nulative amounts) vers or Caps ter Supplies acuation or Relocation of Residents | | | |
| nulative amounts) vers or Caps ter Supplies acuation or Relocation of Residents ign Posting | | | |
| e | | | |



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**

3

Release Tracking Number

- 34943

| D.] | DES | CRIPTION OF RESPONSE ACTIO | NS: (cont.) | | | |
|-------------|-----------|---|---------------|-------------------------------------|--------|--|
| Γ | 15. | Excavation of Contaminated Soils. | | | | |
| | Γ | a. Re-use, Recycling or Treatment | i. On Site | Estimated volume in cubic yards | | |
| | | | 🔲 ii. Off Sit | Estimated volume in cubic yards | | |
| | | iia. Receiving Facility: | | Town: | State: | |
| | | iib. Receiving Facility: | | Town: | State: | |
| | | iii. Describe: | | | | |
| | \square | b. Store | i. On Site | Estimated volume in cubic yards | | |
| | | | 🔲 ii. Off Sit | e Estimated volume in cubic yards | | |
| | | iia. Receiving Facility: | | Town: | State: | |
| | | iib. Receiving Facility: | | Town: | State: | |
| | \square | c. Landfill | i. Cover | Estimated volume in cubic yards | | |
| | | Receiving Facility: | | Town: | State: | |
| | | | 🔲 ii. Dispos | sal Estimated volume in cubic yards | | |
| | | Receiving Facility: | | Town: | State: | |
| Γ | 16. | Removal of Drums, Tanks, or Containers: | | | | |
| | | a. Describe Quantity and Amount: | | | | |
| | | b. Receiving Facility: | | Town: | State: | |
| | | c. Receiving Facility: | | Town: | State: | |
| Γ | 17. | Removal of Other Contaminated Media: | | | | |
| | | a. Specify Type and Volume: | | | | |
| Γ | 18. | Other Response Actions: | | | | |
| | | Describe: | | | | |
| Γ | 19. | Use of Innovative Technologies: | | | | |
| | | Describe: | | | | |
| | | | | | | |



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**

| itelease indexing rainoei | Release | Tracki | ing N | umber |
|---------------------------|---------|--------|-------|-------|
|---------------------------|---------|--------|-------|-------|

| 3 - 34943 |
|-----------|
|-----------|

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 provisions of 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,(ii) is (are) appropriate and reasonable to accomplish 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 #: 810 | 7 | | | | |
|----------------|------------------|---------|---------------|-----------|---------------|
| 2. First Name: | LAWRENCE | | 3. Last Name: | FELDMAN | |
| 4. Telephone: | 781-278-3700 | 5. Ext: | | 6. Email: | |
| 7. Signature: | LAWRENCE FELDMAN | | | | |
| 8. Date: 7/24/ | 2018 | (mm | /dd/yyyy) | | 9. LSP Stamp: |

Site P

| Massachusetts Department of Environmental Protection BWSC 105 | | |
|--|-----|--|
| Bureau of Waste Site CleanupImmediate Response Action (IRA) Transmittal FormPursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)Release Tracking Num3-34943 | | |
| F. PERSON UNDERTAKING IRA: | | |
| 1. Check all that apply: 🔽 a. change in contact name 🗆 b. change of address actions | nse | |
| 2. Name of Organization: WYNN MA LLC | | |
| 3. Contact First Name: ROBERT 4. Last Name: DESALVIO | | |
| 5. Street: 101 STATION LANDING SUITE #220 6. Title: PRESIDENT | | |
| 7. City/Town: MEDFORD 8. State: MA 9. Zip Code: 021550000 | | |
| 10. Telephone: 857-770-7801 11. Ext: 12. Email: robert.desalvio@encorebostonharbor.com | | |
| G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA: | | |
| Check here to change relationship | | |
| I. RP or PRP I. a. Owner I b. Operator I c. Generator I 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 following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along w the appropriate transmittal form. | | |
| a. A Release Abatement Measure (RAM) Plan (BWSC106) | | |
| 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. | l | |

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.

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



BWSC 105

| Release Tracking Number |
|-------------------------|
|-------------------------|

3 - 34943

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

I. CERTIFICATION OF PERSON UNDERTAKING IRA:

| 2. By: | ROBERT DESALVIO | 3. Title: | PRESIDENT | |
|---------|-----------------|-----------|-----------|--------------|
| 4. For: | WYNN MA LLC | 5. Date: | 7/23/2018 | (mm/dd/yyyy) |

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

12. Ext:

| 7. Butte. | 7. | Street: | |
|-----------|----|---------|--|
|-----------|----|---------|--|

8. City/Town:

11. Telephone:

13. Email:

9. State:

10. Zip Code:

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 7/24/2018 7:51:05 AM



Appendix C – MassGIS Map





Appendix D – Concentrated Flow Laboratory Analytical Data



ANALYTICAL REPORT

| Lab Number: | L1817926 |
|-----------------|---|
| Client: | GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062 |
| ATTN: Phone: | Neal Carey (781) 278-5831 |
| Project Name: | WYNN EVERETT |
| Project Number: | 171521.52 |
| Report Date: | 05/21/18 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



| Serial | No:05211814:28 |
|--------|----------------|
|--------|----------------|

| Project Name: | WYNN EVERETT | | | Lab Number: | L1817926 |
|--------------------|----------------------------|---------------|----------------------------|-------------------------|--------------|
| Project Numbe | r: 171521.52 | | | Report Date: | 05/21/18 |
| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
| L1817926-01 | RUNNEL_SOUTH_PE _5_16_1 | NINSULA WATER | 1 HORIZON WAY, EVERETT, MA | 05/16/18 15:25 | 05/16/18 |



L1817926

Project Name: WYNN EVERETT

Report Date: 05/21/18

Lab Number:

Project Number: 171521.52

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

| An af | firmative response to questions A through F is required for "Presumptive Certainty" status | |
|-------|--|-----|
| A | Were all samples received in a condition consistent with those described on the Chain-of- Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| В | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? | YES |
| С | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? | YES |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?" | YES |
| E a. | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). | N/A |
| Eb. | APH and TO-15 Methods only: Was the complete analyte list reported for each method? | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? | YES |
| A res | ponse to questions G, H and I is required for "Presumptive Certainty" status | |
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | YES |
| н | Were all QC performance standards specified in the CAM protocol(s) achieved? | NO |

I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: WYNN EVERETT Project Number: 171521.52

 Lab Number:
 L1817926

 Report Date:
 05/21/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: WYNN EVERETT Project Number: 171521.52
 Lab Number:
 L1817926

 Report Date:
 05/21/18

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

In reference to question H:

A Matrix Spike was not submitted for the analysis of Total Metals.

Total Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

609 Standow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 05/21/18



METALS



Serial_No:05211814:28

| Project Name: | WYNN EVERETT | Lab Number: | L1817926 |
|------------------|-------------------------------|-----------------|----------------|
| Project Number: | 171521.52 | Report Date: | 05/21/18 |
| | SAMPLE RESULTS | | |
| Lab ID: | L1817926-01 | Date Collected: | 05/16/18 15:25 |
| Client ID: | RUNNEL_SOUTH_PENINSULA_5_16_1 | Date Received: | 05/16/18 |
| Sample Location: | 1 HORIZON WAY, EVERETT, MA | Field Prep: | Not Specified |

Sample Depth:

Matrix:

Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|------------------|-------------|-----------|-------|--------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| MCP Total Metals | - Mansfield | d Lab | | | | | | | | | |
| Antimony, Total | ND | | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Arsenic, Total | 0.0065 | | mg/l | 0.0050 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Cadmium, Total | ND | | mg/l | 0.004 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Chromium, Total | ND | | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Copper, Total | 0.021 | | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Iron, Total | 0.151 | | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Lead, Total | ND | | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Mercury, Total | ND | | mg/l | 0.0002 | | 1 | 05/17/18 15:05 | 05/17/18 19:04 | EPA 7470A | 97,7470A | MG |
| Nickel, Total | ND | | mg/l | 0.025 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Selenium, Total | ND | | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Silver, Total | ND | | mg/l | 0.007 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Vanadium, Total | ND | | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |
| Zinc, Total | 0.078 | | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:51 | EPA 3005A | 97,6010C | LC |



Project Name: WYNN EVERETT Project Number: 171521.52
 Lab Number:
 L1817926

 Report Date:
 05/21/18

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | | Analytical Method | |
|------------------------|----------------------|----------|--------|--------|--------------------|------------------|----------------|----------------------|----|
| MCP Total Metals - Mar | sfield Lab for sampl | e(s): 01 | Batch: | WG1116 | 6883-1 | | | | |
| Mercury, Total | ND | mg/l | 0.0002 | | 1 | 05/17/18 15:05 | 05/17/18 18:55 | 97,7470A | MG |

Prep Information

Digestion Method: EPA 7470A

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|------------------------|----------------------|----------|--------|-------|--------------------|------------------|------------------|----------------------|---------|
| MCP Total Metals - Man | sfield Lab for sampl | e(s): 01 | Batch: | WG111 | 7258-1 | | | | |
| Antimony, Total | ND | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Arsenic, Total | ND | mg/l | 0.0050 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Cadmium, Total | ND | mg/l | 0.004 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Chromium, Total | ND | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Copper, Total | ND | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Iron, Total | ND | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Lead, Total | ND | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Nickel, Total | ND | mg/l | 0.025 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Selenium, Total | ND | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Silver, Total | ND | mg/l | 0.007 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Vanadium, Total | ND | mg/l | 0.010 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |
| Zinc, Total | ND | mg/l | 0.050 | | 1 | 05/18/18 13:06 | 05/21/18 11:32 | 97,6010C | LC |

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: WYNN EVERETT Project Number: 171521.52

Lab Number: L1817926 Report Date: 05/21/18

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|-------------|--------------------------|----------|---------------------|-----|------|------------|
| MCP Total Metals - Mansfield Lab Associated | sample(s): 01 | Batch: WG11 | 16883-2 WG1 ² | 116883-3 | | | | |
| Mercury, Total | 101 | | 101 | | 80-120 | 0 | | 20 |
| MCP Total Metals - Mansfield Lab Associated | sample(s): 01 | Batch: WG11 | 17258-2 WG1 ² | 117258-3 | | | | |
| Antimony, Total | 111 | | 113 | | 80-120 | 2 | | 20 |
| Arsenic, Total | 113 | | 113 | | 80-120 | 0 | | 20 |
| Cadmium, Total | 119 | | 120 | | 80-120 | 1 | | 20 |
| Chromium, Total | 106 | | 108 | | 80-120 | 2 | | 20 |
| Copper, Total | 105 | | 107 | | 80-120 | 2 | | 20 |
| Iron, Total | 109 | | 110 | | 80-120 | 1 | | 20 |
| Lead, Total | 104 | | 104 | | 80-120 | 0 | | 20 |
| Nickel, Total | 106 | | 106 | | 80-120 | 0 | | 20 |
| Selenium, Total | 118 | | 118 | | 80-120 | 0 | | 20 |
| Silver, Total | 110 | | 114 | | 80-120 | 4 | | 20 |
| Vanadium, Total | 110 | | 112 | | 80-120 | 2 | | 20 |
| Zinc, Total | 113 | | 113 | | 80-120 | 0 | | 20 |



Project Name:WYNN EVERETTProject Number:171521.52

Serial_No:05211814:28 *Lab Number:* L1817926 *Report Date:* 05/21/18

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A | Absent |

| Container Info | rmation | | Initial | Final | Temp | | | Frozen | |
|----------------|------------------------------|--------|---------|-------|-------|------|--------|-----------|---|
| Container ID | Container Type | Cooler | рН | pН | deg C | Pres | Seal | Date/Time | Analysis(*) |
| L1817926-01A | Plastic 250ml HNO3 preserved | A | <2 | <2 | 5.0 | Y | Absent | | MCP-CR-6010T-10(180),MCP-FE-6010T- 10(180),MCP-7470T-10(28),MCP-AS-6010T- 10(180),MCP-CD-6010T-10(180),MCP-AG- 6010T-10(180),MCP-CU-6010T-10(180),MCP- SB-6010T-10(180),MCP-ZN-6010T- 10(180),MCP-SE-6010T-10(180),MCP-V- 6010T-10(180),MCP-NI-6010T-10(180),MCP- PB-6010T-10(180) |
| L1817926-01B | Plastic 250ml HNO3 preserved | A | <2 | <2 | 5.0 | Y | Absent | | MCP-CR-6010T-10(180),MCP-FE-6010T- 10(180),MCP-7470T-10(28),MCP-AS-6010T- 10(180),MCP-CD-6010T-10(180),MCP-AG- 6010T-10(180),MCP-CU-6010T-10(180),MCP- SB-6010T-10(180),MCP-ZN-6010T- 10(180),MCP-SE-6010T-10(180),MCP-V- 6010T-10(180),MCP-NI-6010T-10(180),MCP- PB-6010T-10(180) |



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GLOSSARY

Acronyms

| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
|----------|---|
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound |

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum. Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after

adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH. Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Waterpreserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- **B** The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte was detected above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C -Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- **D** Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- **P** The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- **S** Analytical results are from modified screening analysis.
- J -Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reporting limit (RL) for the sample.



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REFERENCES

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. EPA 8270D: <u>NPW</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine; <u>SCM</u>: Dimethylnaphthalene, 1,4-Diphenylhydrazine. EPA 300: DW: Bromide EPA 6860: SCM: Perchlorate EPA 9010: <u>NPW</u> and SCM: Amenable Cyanide Distillation SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3. **Mansfield Facility**

SM 2540D: TSS EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187. EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene. Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP. Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D. EPA 624: Volatile Halocarbons & Aromatics, EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil. Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water EPA 200.7: AI, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn. EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

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