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February 28, 2019
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: Release Abatement Measure (RAM) Status Report No. 6
Construction-Related Remediation Activities
Former Everett Staging Yard
One Broadway, Everett, Massachusetts
Release Tracking Number (RTN) 3-13341

To Whom It May Concern:

GZA has prepared this Release Abatement Measure ("RAM") Status Report on behalf of Wynn MA, LLC ("Wynn MA") to document construction-related RAM activities completed between August 1, 2018 and February 1, 2019, at the Former Everett Staging Yard Disposal Site (the "Site") and neighboring properties, which are collectively referred to as the RAM Project Area. The RAM Plan for these activities was prepared by GZA on behalf of Wynn MA and filed with the Massachusetts Department of Environmental Protection ("MassDEP") on May 3, 2016. The RAM Plan has been modified three times, on November 16, 2016, February 2, 2017, and November 1, 2017.

A Site Locus Map is presented as Figure 1; the RAM Project Area is shown on Figure 2; and a Site Plan is included as Figure 3.

This is the sixth RAM Status Report for construction-related activities at the Site. This RAM Status Report was prepared following guidance contained in Section 40.0445 of the Massachusetts Contingency Plan ("MCP"). The original RAM transmittal form (BWSC-106) was electronically signed and submitted online to MassDEP using eDEP concurrent with this submittal. A copy of BWSC106 is also included as Appendix A. This Report is subject to the Limitations in Appendix B.

The Site has been designated as a Public Involvement Plan ("PIP") site per Section 40.1404 of the MCP. A Notice of Availability of this RAM Status Report has been emailed to local officials and residents on the PIP mailing list. A copy of this RAM Status Report has also been made available at the designated information repositories, on the Encore Boston Harbor website (www.encorebostonharbor.com), and on eDEP.

EXECUTIVE SUMMARY

As summarized in prior MCP submittals, soil, groundwater, and sediment at the Site have been contaminated by historical industrial site uses. The May 3, 2016, RAM Plan, and the November 16, 2016, February 2, 2017, and November 1, 2017, RAM Plan modifications (collectively, the "Modified RAM Plan") outline MCP Response Actions that will be completed during construction, including the excavation and off-Site disposal of contaminated soils, the dredging of contaminated sediment, the sampling for asbestos in soil, perimeter dust

monitoring, work-zone monitoring, placement of clean fill materials at locations within the RAM Project Area, placement of clean cover materials over marker layers at locations within the RAM Project Area, and off-Site disposal of materials.

Activities completed during this performance period were primarily associated with the disposal characterization of excavated soils, sampling for asbestos in soil, perimeter and work-zone air monitoring, the off-Site disposal of soils at appropriately permitted disposal facilities, and installation of marker layers and clean cover materials. RAM activities performed at the Site followed a Site-specific Health and Safety Plan ("HASP") as outlined in the Modified RAM Plan.

RAM activities performed during this reporting period included:

- Communications with Mr. John Macauley of MassDEP regarding Site activities related to asbestos abatement under a Non-Traditional ("NT") Plan;
- Collection and laboratory analyses of 27 soil samples for asbestos testing by a Massachusetts-certified laboratory using Polarized Light Microscopy ("PLM");
- Collection and laboratory analyses of 9 soil samples for disposal characterization;
- AirLogics perimeter air monitoring system was demobilized on October 30, 2018 but was continuously monitoring dust levels in air up to that date. Since that date, air monitoring has been performed using hand-held dust meters proximate to the area of active excavation work.
- Excavation of soils associated with the construction/installation of utilities, marker layers, tree pits, and expanded polystyrene ("EPS") foam blocks;
- Off-Site disposal of approximately 14,550 tons of soil at appropriately permitted In-State and Out-of-State disposal facilities following Bill-of-Lading ("BOL") procedures;
- Off-Site disposal of approximately 120 tons of additional soil containing asbestos at an appropriately permitted Out-of-State disposal facility following Bill-of-Lading and Massachusetts Asbestos Waste Shipment Record procedures;
- Provision to MassDEP of copies of laboratory reports for asbestos-in-soil testing;
- Installation of marker layers and clean cover materials throughout the Site following details included in the November 1, 2017, RAM Plan Modification;
- Release notification to MassDEP for a Condition of Substantial Release Migration and subsequent preparation of an Immediate Response Action ("IRA") Plan (RTN 3-35119).
- Preparation of an Immediate Response Action Status Report in response to notification to MassDEP for a Condition of Substantial Release Migration (RTN 3-34943); and
- Maintenance of site erosion controls; and removal of miscellaneous materials (concrete obstructions, steel, etc.) for off-Site recycling/disposal at appropriately permitted facilities.

INTRODUCTION

The Site is the location of a resort being developed by Wynn MA and is comprised of the former Everett Staging Yard and several neighboring properties. These areas are summarized below.

The Former Everett Staging Yard Site is located on the northern bank of the Mystic River in Everett, MA (Figure 2). The upland portion of the Site comprises approximately 21.75 acres of land, and the water-side portion comprises approximately 8.44 acres seaward of mean high water ("MHW"), including part of the Mystic River channel and an embayment in the southeast corner of the Site. Different portions of the Project RAM Area are referred to as follows:

- Former Everett Staging Yard Disposal Site: the MCP disposal site identified by MassDEP RTN 3-13341;
- Upland Property: the upland portion of the former Everett Staging Yard;
- Water-Side Site: the water-side portion of the Former Everett Staging Yard, where contaminants released from the Upland Property have come to be located in sediment in the Mystic River; and
- Channel: A historically dredged navigational channel within the embayment (bottom contours generally on the order of -16 to -18 feet NAVD88).

The following project activities are included in the Modified RAM Plan:

- Earthwork, construction dewatering, foundation construction, and utility installation for a building with below-ground parking, with a footprint of approximately 500,000 square feet (completed);
- Earthmoving and grading for landscape and open space amenities, including a proposed Harborwalk along the waterfront (ongoing); and
- Earthwork and dredging to construct significant improvements along the former structurally and ecologically degraded shoreline, including:
    - Construction of a replacement bulkhead comprised of concrete pile-supported deck above a stone slope revetment, along a section of the northwestern embayment shoreline (completed);
    - Construction of a replacement steel sheet-pile bulkhead along the northern and eastern embayment shoreline, in lieu of the existing deteriorated timber and stone bulkheads (completed);
    - Waterfront access to the Site via new floating docking facilities to be constructed in the embayment; and
    - Creation of a "living shoreline" of restored salt marsh and vegetated coastal bank along the waterfront (completed).

Wynn MA also controls or has negotiated easements on contiguous parcels that will be developed to provide vehicular access to the resort; these properties are referred to as the "neighboring properties" in this RAM. As shown on Figure 2, these lots include Parcels 1, 2, and 3 formerly owned by the Massachusetts Bay Transportation Authority (MBTA; 80 Broadway) and additional portions of this property still owned by the MBTA; properties at 20 and 38-50 Broadway; a portion of the property at 3 Charlton Street that is traversed by the constructed Service Road; the property at 128 Broadway; and the property at 150 Alford Street. The following project activities on these parcels are included in the RAM:

- Construction of the primary Access Driveway to the resort across Parcel 1 and the properties at 20 and 38-50 Broadway and 150 Alford Street (completed);

- Construction of a Service Road (completed) and associated utilities across Parcels 2 and 3 and a portion of the property at 3 Charlton Street, additional portions of the 80 Broadway property, 128 Broadway, and portions of Charlton Street and Broadway (completed)

- Earthmoving and grading for landscape and open space amenities (ongoing); and

- Construction of the Battery Energy Storage System (BESS) adjacent to the Service Road (ongoing).

DESCRIPTION OF RELEASE, SITE CONDITIONS AND SURROUNDING RECEPTORS

The following sections provide a brief description of the RAM Project Area, regulatory history, and release conditions being addressed by the RAM.

FORMER EVERETT STAGING YARD – UPLAND PROPERTY

The Site is located at One Broadway in Everett, Massachusetts (Figure 1) and lies within the disposal site boundary for RTN 3-13341. The Upland Property is an irregularly shaped parcel of land roughly bounded by Alford Street to the east, MBTA railroad tracks to the west, an MBTA bus repair and maintenance facility to the north, and the Mystic River to the south. The Site includes a peninsula of land that extends southerly into the Mystic River, and most of the small embayment located eastward of the peninsula (Figure 2). Access to the Upland Property is limited by the presence of a chain-link fence; security personnel control access to the Site at each of the gates.

Investigations conducted between 1995 and the present have identified several contaminants in soil, groundwater, and sediments at the Site, including metals, volatile organic compounds ("VOCs"), volatile petroleum hydrocarbon ("VPH") fractions and target analytes, semi-volatile organic compounds ("SVOCs"), extractable petroleum hydrocarbon ("EPH") fractions and target analytes, and polychlorinated biphenyls ("PCBs"). The sources of contamination at the Site include past industrial operations and the placement of contaminated fill. According to historic reports, the Site was occupied by the Cochran Chemical Company, the Merrimac Chemical Company, and the Monsanto Chemical Company from the late 1800s until the late 1960s. The buildings on the land-side portion of the Site were razed in the 1970s. The land-side portion of the Site has been used primarily as a material storage and staging yard since the mid-1990s, when rock and fine-grained sediment ("tunnel muck") from the construction of the Deer Island Outfall was stockpiled on it in a 1- to 7-foot-thick layer. Other than temporary office trailers, there are currently no completed buildings at the Site.

The Site was briefly used as a staging area for concrete-encased utilities excavated from a property in Boston in November 1999. RTN 3-18971 was issued by MassDEP in November 1999 after it was discovered that the concrete-encased materials brought to the Site from Boston included Transite, an asbestos-containing material ("ACM"). Asbestos abatement was performed in December 1999 in accordance with a work plan approved by MassDEP and included the removal and off-property disposal of approximately 20 cubic yards of material. A Class A-1 Response Action Outcome ("RAO" now called a Permanent Solution with no restrictions) was filed in January 2000 for this RTN.

Wynn MA acquired the former Everett Staging Yard on January 2, 2015. On February 5, 2015, Wynn MA filed an Eligible Person Submittal and a Revised Tier II Classification with MassDEP for RTN 3-13341. The Eligible Person Submittal outlined plans to address three impacted areas of the Site as part of a separate Pre-Construction RAM and plans to remove additional contaminated fill materials in concert with Site redevelopment, which is being performed as part of this Modified RAM Plan. The Pre-Construction RAM Completion Report and Immediate Response Action Completion Report

(filed under RTNs 3-13341 and 3-33284), which summarized remediation activities for the three areas was filed with MassDEP on August 4, 2016.

On May 25, 2018, GZA provided verbal notification of a release at the Site in accordance with the MCP. The 72-hour release notification was required due to a Condition of Substantial Release Migration in surface water from the Site. The surface water consisted of a visible concentrated flow of tidal flux water from the Site to the Mystic River. This release was assigned RTN 3-34943. No specific remediation activities were performed for this RTN. Regulatory closure of this release will be included in the permanent solution statement for the Site.

On August 16, 2018, GZA provided verbal notification of a release at the Site in accordance with the MCP. The 72-hour release notification was required due to a Condition of Substantial Release Migration in surface water at the Site. The observed turbid discharge was released from a drainage structure on the Site into the Mystic River. This release was assigned RTN 3-35119. A combination of a bladder and hydraulic cement plug were installed into a drainage manhole upgradient of the outfall to prevent the flow of turbid water into the Mystic River. No other specific remediation activities were performed for this RTN during the time period for this RAM Status report. Regulatory closure of this release will be included in the permanent solution statement for the Site.

WATER-SIDE SITE

Historic releases of oil and hazardous material ("OHM") at the Site also resulted in impacts to sediments in the Mystic River and embayment (i.e., the Water-Side Site). A Stage II Ecological Risk Characterization prepared by Menzie-Cura in 2006 concluded that the OHM in sediment presented a significant risk of harm to the benthic (bottom dwelling) community. The nature and extent of OHM at the Water-Side Site were further delineated by Supplemental Phase II assessment activities conducted by GZA and by AMEC, the results of which were presented in a Supplemental Phase II Comprehensive Site Assessment ("CSA") Report and a Revised Supplemental Phase II CSA Report, submitted to MassDEP in December 2015 and December 2016, respectively.

Based on contaminant concentration distribution within the Water-Side Site sediments, and on statistical comparisons between Water-Side Site data and Local Conditions samples, the Phase II reports identified several Contaminants of Potential Ecological Concern in sediment associated with the Water-Side Site. The approach for addressing this contamination was presented in a Phase III Evaluation of Remedial Alternatives and Phase IV Remedy Implementation Plan Report, prepared by AMEC and filed with MassDEP on June 21, 2017.

NEIGHBORING PROPERTIES

20 AND 38-50 BROADWAY

These parcels are contiguous, extending from southwest (#20) to northeast (#38-50) along the northwest side of Broadway. The 20 Broadway Street property ("Lot D") is part of the construction site. The property at 38-50 Broadway Street is now a landscaped lot (location of former Mobil gas station and former Dunkin' Donuts shop). The RAM Plan refers to this property as 38-50 Broadway based on the deed for the parcels. However, this location is referred to in some records as 30 Broadway.

The property at 38-50 Broadway was operated as a gas station since the mid-1900s; the most recent occupant, a Mobil station, was built in the late 1990s. In June 2017, GZA monitored the removal of three underground storage tanks ("USTs") at the property including one 14,000-gallon gasoline UST, one 10,000-gallon gasoline UST, and one 6,000-gallon diesel UST. During the removals, all three USTs were observed to be in good condition with no signs of pitting or leakage and were double-walled fiberglass tanks. Laboratory testing results for volatile petroleum hydrocarbons ("VPH") and extractable petroleum hydrocarbons ("EPH") analyses for excavation sidewall samples were below MCP Reportable Concentrations for Soil Category S-2. A UST Removal Report documenting removal activities was appended to the third

RAM Status Report. Following removal of the USTs, the former Mobil station building was demolished and removed from the parcel which is now a landscaped lot.

In March 2018, the Dunkin Donuts building (50 Broadway) was demolished to accommodate site work related to landscaping.

The MBTA bus maintenance facility is to the northwest of the property; the former Horizon Way, across which is Lot 2, is to the southwest of 20 Broadway; and various commercial and industrial properties are to the southeast across Broadway and Bow Street. The property to the northeast of 38-50 Broadway is occupied by the Honda Cars of Boston dealership; the portion of that property immediately abutting the 38-50 Broadway property is a fenced, unpaved area used to store vehicles available for sale by the dealership.

No releases have been reported for the 20 Broadway property. It is not a disposal site as defined by the MCP. However, given the known historic filling and urban, industrialized history of the area, soil and groundwater generated during construction activities at this location are being managed as part of the Modified RAM Plan.

MassDEP's Sites database indicates that two releases have been reported for the address of 30 Broadway, aka Parcel F, under RTNs 3-2526 and RTN 3-14553, and that RAO statements without any associated deed restrictions have been filed for both RTNs.

In December 1998, MassDEP issued RTN 3-17760 for 38-50 Broadway (referenced as 38-48 Broadway on MassDEP's online database) for a release associated with a former underground storage tank at the property. The tank was removed, and subsequent response actions included the excavation and off-site disposal of approximately 585 tons of petroleum-contaminated soils. As part of a Class A-3 RAO, an AUL was filed in 2001, amended in 2009, and covers the entire property. Restricted uses for 38-40 Broadway include residential use of the property; use of the property for growing fruits or vegetables intended for consumption; use of the property for a school or day care facility; and any other activity that would result in uncontrolled exposures to soils at the property, unless evaluated and approved by a LSP. The extent of the AUL area is shown on Figure 2.

A second RTN (3-18291) was generated for 38-50 Broadway (referenced as 38 Broadway on MassDEP's online database) during redevelopment activities in late 1998 when the characterization of soils for off-site disposal indicated that concentrations of certain polycyclic aromatic hydrocarbons ("PAHs") and lead in stockpiled soils were above MCP Reportable Concentrations. The stockpiled soil was disposed of off-site under the RAM provisions of the MCP. The RTN is currently classified as DEPNFA (No Further Action) by MassDEP.

A third RTN (3-27571) was generated on March 15, 2008 for 38-50 Broadway after gasoline was released to the ground surface as a result of a customer overfilling a vehicle gasoline tank. The release was reported to MassDEP and was remediated using absorbent materials. A Release Notification Retraction was submitted to MassDEP on March 27, 2008.

PARCELS 1, 2 AND 3 (FORMERLY PART OF THE MBTA REPAIR FACILITY AT 80 BROADWAY) AND ADDITIONAL PORTIONS OF 80 BROADWAY

Parcel 1 is a paved lot located in the southeastern portion of the MBTA property and included a small shed-like building on the southern portion of the property. Metal storage containers in the vicinity of the shed were used to store bus parts. The parcel is abutted by additional paved portions of the MBTA bus maintenance facility to the north and west, by the former Horizon Way to the southwest, and by the 20 and 38-50 Broadway properties to the northeast.

Parcel 2 consists of a strip of paved land located along the northeastern border of the MBTA property, extending approximately to the 3 Charlton Street property; various commercial properties along Broadway adjoin this parcel to the east.

Parcel 3 consists of a strip of paved land located along the western border of the MBTA property; railroad tracks adjoin this property to the west. An electrical tower is located in the south-central portion of the parcel.

The additional portions of 80 Broadway included in the Modified RAM Plan consist of paved areas contiguous with Parcels 1, 2 and 3.

Several RTNs have been identified for 80 Broadway Street, the address of the MBTA's bus maintenance facility; some cover the property as a whole and some apply only to smaller areas within the property. The following RTNs pertain to portions of the 80 Broadway property within the RAM Project Area.

On November 6, 2003, MassDEP issued RTN 3-23351 following notification of the presence of elevated concentrations of arsenic (35 mg/kg) and PAHs in soil. The source of the elevated PAHs and arsenic was attributed to the presence of coal ash associated with urban fill. OHM concentrations in groundwater were reported to be below reportable concentrations. A Class B-1 RAO (i.e., no restrictions on future activities or uses) was filed for RTN 3-23351 in 2005.

A Utility Related Abatement Measure ("URAM") was performed in 2005 for NSTAR Electric & Gas. According to the report, NSTAR constructed a subsurface 115kV electric power transmission line connecting to the above-ground transmission line located on the MBTA property. The line extends from the Mystic Station electric power generating facility along Alford Street and Broadway to Chemical Lane to the MBTA property. Because the MBTA property was a listed MCP site, NSTAR notified MassDEP of the proposed work and MassDEP issued RTN 3-24832 for the subsurface utility work. Approximately 400 tons of soil was generated during the construction work; most of this was re-used as backfill, but approximately 69 cubic yards (approximately 100 tons) of soil was transported off-site for use as daily cover material at a Massachusetts landfill. Water generated during construction dewatering was recharged on-site within 100 feet of the excavation.

3 CHARLTON STREET

The property was formerly occupied by a multi-tenant commercial structure consisting of several interconnected buildings that were formerly used for industrial purposes. The 3 Charlton Street property is adjoined by railroad tracks, across which are the Gateway Center and vacant land, to the northwest and north; by Brickyard Lane, across which are a multi-story parking garage and newly constructed condominium buildings, to the northeast and east; and by the MBTA bus repair property to the south. Construction activities associated with the Modified RAM Plan have been completed on this Site where the Service Road traverses a portion of the 3 Charlton Street property.

Five RTNs have been issued for 3 Charlton Street (aka 9 Charlton Street).

RTN 3-1850 was issued to the former New England Bolt site on October 28, 1987 due to the presence of elevated concentrations of arsenic and beryllium in site soil. A Class A-3 RAO Statement was submitted to MassDEP on June 9, 2005. An AUL covering the northern portion of the property, filed as part of the RAO for RTN 3-1850, allows all commercial or industrial uses of the property. The AUL prohibits re-location of petroleum-impacted soil to another location on the property without the development and implementation of a Soil Management Plan; prohibits the use of the property as a residence, school, nursery, daycare or recreational facility without an LSP Evaluation Opinion stating that such use is consistent with maintaining a condition of no significant risk ("NSR"); and prohibits the construction of a new building without the use of a vapor barrier and a passive sub-slab venting system to prevent the migration of VOCs into the building.

RTN 3-19103 was issued on December 21, 1999 due to the detection of the VOC 1,1-dichloroethylene in the groundwater at a concentration of 17 ug/L. This RTN was closed by linking it to RTN 3-1850 on December 18, 2000.

RTN 3-24168 was issued on August 20, 2004, due to the detection of reportable concentrations of VOCs, petroleum fractions, and benzo(a)anthracene, a PAH compound, in the soil. The RTN was closed by linking it to RTN 3-1850 on October 13, 2004.

RTN 3-24699 was issued on March 14, 2005, due to the detection of reportable concentrations of petroleum hydrocarbons in soil and groundwater. A Downgradient Property Status ("DPS") Opinion relative to this release was submitted to MassDEP on June 9, 2005. The DPS attributed alkane solvents detected in the groundwater to a release at the adjoining former Hub Fabric Facility. The DPS area overlaps portions of the areas of petroleum releases identified on the 3 Charlton Street property.

This property was recently redeveloped with a new low-rise office building utilized as a construction field office. This redevelopment was conducted as a post-RAO RAM under a separate RTN (3-1850).

RTN 3-33680 was issued on July 11, 2016, due to the detection of trichloroethylene ("TCE") in soil at levels above its reportable concentration during the execution of preliminary characterization borings within a portion of the Service Road on the Site. The area of the TCE detection is bounded by 3 Charlton Street to the north, MBTA railway area to the west, the MBTA service facility to the east, and the service road to the South. A URAM Plan was filed with MassDEP on July 19, 2016, which outlined procedures to manage soil and groundwater during the installation of a water line. URAM activities for RTN 3-33680 included excavation and off-Site disposal of approximately 850 cubic yards of soil to Waste Management's Turnkey Landfill in Rochester, New Hampshire. The URAM Completion Report was filed with MassDEP on October 31, 2017.

As part of MCP response actions for RTN 3-33680, GZA submitted a Phase I-Initial Site Investigation Report and Tier Classification to MassDEP on July 21, 2017, which resulted in a Tier II site classification. Three additional soil borings (SR-11E, SR-11 MID, and SR-11 W) were performed east and west of the URAM area on January 22, 2018, to bound the extent of TCE impacts to soil; the extent of TCE impacts to soil had already been delineated to the north and south. Visual, olfactory and photoionization detector ("PID") evidence of potential contamination was not observed during the drilling program. Soil samples were selected from various depths in each of the three soil borings for laboratory analysis of VOCs; 10 soil samples were analyzed for VOCs. One VOC, TCE, was detected in 6 of the 10 soil samples. Except for one sample, SR-11 MID (10 to 15 feet), detected TCE concentrations were below applicable MCP Method 1 S-1 standards. TCE was detected at 0.4 mg/kg in the SR-11 MID (10 to 15 feet) sample which is slightly above its MCP S-1/GW-2 standard of 0.3 mg/kg. A comprehensive evaluation of the data was performed and a Permanent Solution Statement ("PSS") for this RTN is expected to be filed in Summer 2019.

128 BROADWAY

This property is situated on the northwest side of Broadway and was formerly occupied by a McDonald's Restaurant. The MBTA bus maintenance facility adjoins the property to the northwest; a Honda automobile dealership at 100 Broadway adjoins the property to the southwest; a Public Storage facility at 140 Broadway adjoins the property to the northeast; and mixed commercial and residential properties are located across Broadway to the southeast.

No releases have been reported for the 128 Broadway property, and it is not a disposal site as defined by the MCP. Given the known historic filling and the urban, industrialized history of the area, soil and groundwater generated during construction activities at this location was managed as part of this RAM.

150 ALFORD STREET

This property is situated on the corner of the former Horizon Way (formerly known as Chemical Lane) and Alford Street in Boston/Charlestown. The MBTA bus maintenance facility and the property at 20 Broadway are across the former Horizon Way to the northeast of 150 Alford Street; paved land and a vacant building are to the northwest; a building occupied by the Boston Water and Sewer Commission is to the southwest; and industrial and commercial property is across Alford Street to the southeast. Alford Street becomes Broadway at the Everett/Boston city line.

No releases have been reported for the 150 Alford Street property, and it is not a disposal site as defined by the MCP. Given the known historic filling and the urban, industrialized history of the area, soil and groundwater generated during construction activities at this location are being managed as part of this RAM.

RELEASE ABATEMENT MEASURE STATUS REPORT

The following sections of this document are intended to address the specific requirements for RAM Status Reports as outlined in the MCP at 310 CMR 40.0445 (2) (a) through (e).

(a) The Status of Response Actions

This sixth RAM Status Report documents construction-related RAM activities performed between August 1, 2018 and February 1, 2019.

Consistent with the prior RAM Status reports, mobilization of equipment and materials is ongoing to support various phases of construction.

As noted in the third RAM Plan Modification, the AirLogics perimeter monitoring stations were reduced from four locations to three on November 20, 2017, from three locations to two on December 26, 2017, from two locations to one on June 20, 2018. The last remaining perimeter air monitoring station was removed on October 30, 2018. Air monitoring is currently being performed using a hand-held dust meter (TSI 8533 DustTrak Aerosol Monitor) proximate to active excavation and soil management areas. No exceedances were reported during this RAM performance period. Additional details concerning the AirLogics monitoring are presented below.

Materials Management Areas ("MMAs") for the temporary storage of excavated soils have been maintained at various locations throughout the Site. These areas are shown on Figure 3.

Obstructions (concrete and metal debris) have been encountered and removed from areas within the construction footprint in excavation areas for tree pits and where subsurface structures are being constructed (e.g., EPS Foam block, utilities).

As discussed in Section (b) below, 9 soil samples were collected in situ for soil disposal characterization, and 27soil samples were collected for laboratory analysis of asbestos using PLM methodology. Asbestos testing results were reported as non-detect ("ND") with the exception of sample BF-2-N which was reported at <1% asbestos in soil.

Work zone monitoring was performed following the NT Plan protocols during asbestos in soil loading, on an as-needed basis. Misting of work areas was performed during these activities.

As discussed in Section (b) below, approximately 14,550 tons of soil was transported off-Site for disposal at appropriately permitted facilities during the reporting period. Soils were transported following BOL tracking procedures.

Approximately 120 tons of soil containing asbestos was transported off-Site for disposal at Turnkey Landfill in Rochester, New Hampshire following BOL and Asbestos Waste Material Shipping Record tracking procedures.

Groundwater encountered during excavation work, if any, during this RAM performance period was discharged into an upgradient re-infiltration pit.

Asphalt, concrete, and metal debris were transported off-Site and disposed of at appropriately permitted facilities.

Construction-related work performed during this RAM performance period included the following: soil excavations for EPS foam blocks on the southern end of the resort and eastern end of the convention center; soil excavations for the installation of marker layers and clean cover materials along the east side of the convention center and throughout the retail parcel in the northeastern portion of the Site; soil excavations for utilities to support construction of the BESS; and installation of landscape features (e.g., tree plantings, hardscape walkways, and tree pit drainage structures) throughout the northern and eastern portions of the site as well as limited areas along the southern peninsula. Geotechnically suitable soils have been reused on-Site to the extent possible.

Note that most of the soils encountered during construction excavation had been previously characterized for disposal purposes; when necessary, additional disposal characterization samples have been collected in situ to obtain disposal facility acceptance.

HEALTH AND SAFETY

Work activities in the RAM Project Area are performed by personnel trained to handle contaminated materials per Occupational Safety and Health Administration ("OSHA") Regulation 29 CFR 1910.120. The original Health and Safety Plan governing GZA's activities at the RAM Project Area was attached to the Modified RAM Plan. That Health and Safety Plan has been modified to include additional environmental monitoring to evaluate the potential for airborne migration of asbestos fibers such that personal protective equipment ("PPE") could be upgraded as necessary. During this RAM Status Report performance period, air monitoring results for asbestos fibers in air were reported as below the 0.01 fibers per cubic centimeter criterion developed by the Massachusetts Department of Labor.

WATER TREATMENT

Groundwater encountered during construction excavations was pumped into the on-Site re-infiltration pit. As discussed below in Section (b), the groundwater treatment was discontinued in late November 2017 due to a decrease in the volume of water requiring treatment, and the groundwater treatment system was decommissioned in April 2018.

PERIMETER AIR MONITORING

As noted above, AirLogics monitoring stations were reduced from four locations to three on November 20, 2017, from three locations to two on December 26, 2017, and from two locations to one on June 20, 2018. The last remaining perimeter air monitoring station was removed on October 30, 2018. Stations STA-1, STA-2, STA-3 and STA-4 were taken off-line as excavation and soil management activities were completed in these areas. In areas where pavement or clean soil cover materials have not been installed over on-Site soils, perimeter dust monitoring was performed using a hand held particulate meter as needed. No exceedances were reported during this RAM performance period.

The analytical instrumentation within the perimeter station that was demobilized during this RAM reporting period consisted of a respirable particulate meter for the measurement of dust as a surrogate for PAHs and metals. The Respirable Particulate Meter was housed in a weather-tight enclosure. The system operated on solar power and was configured with on-board battery backup. Data collected by the AirLogics system was used to evaluate compliance with

the perimeter limits for dust developed as part of the Modified RAM Plan, and to identify any need to suspend or modify remediation activities due to Modified RAM-related air emissions. Weekly summary sheets are included as Appendix E.

Additional air monitoring was performed per requirements contained in the NT Plan, per the RAM Plan modifications, and per discussions with Mr. John Macauley and Mr. Andrew Clark, both of MassDEP. In addition to AirLogics' total dust monitoring, air monitoring during the reporting period included work zone and interior site monitoring/sampling for potential airborne asbestos fibers when earthwork or other activities in the RAM Project Area had the potential to disturb soil potentially containing asbestos or documented to have Asbestos in Soil ("AIS"). Air samples are analyzed for asbestos using Phase Contrast Microscopy ("PCM") in accordance with the standards developed by the National Institute of Occupational Safety and Health ("NIOSH"). Refer to the RAM Plan modifications and NT Plan previously submitted to MassDEP for additional details regarding monitoring protocols.

DUST CONTROL MEASURES

Dust control measures are continuously employed to limit dust generation. These measures include covering trucks hauling soil off the RAM Project Area and covering roll-off containers and temporary stockpiles at the end of each day with polyethylene sheeting. Construction entrances and roadways are being swept on an as needed basis and water sprays have been applied on a consistent basis to limit dust generation.

Dust control measures specific to the NT Plan have also been employed for asbestos-related work activities and are similar to those outlined above. Refer to the NT Plan and RAM Plan modifications previously filed with MassDEP for additional detail.

(b) Any Significant New Site Information or Data

SAMPLING AND ANALYSES

Pre-Characterization Sampling and Analyses

Pre-characterization soil samples and asbestos sample locations are identified in the field by cell coordinates which have been surveyed and marked using global positioning system ("GPS") equipment (vertical and lateral controls). Cell dimensions varied to reflect construction excavations for select features. Samples were collected from test pit excavations at approximately the full depth of proposed excavation. Sample identifications for the pre-characterization samples reflected the location where the sample was collected (e.g., Electric Shack Ramp, BF "Battery Farm", Crane Mat Road, etc.).

Figure 3 shows the MMAs where soil stockpiles are managed. Figure 3 also shows the outline of the existing resort building currently under construction; earthwork associated with the resort structure has been completed.

Pre-characterization samples were typically analyzed for VOCs, SVOCs (including pyridine), Pesticides (including toxaphene), Herbicides, total petroleum hydrocarbons ("TPH"), PCBs, MCP 14 metals, pH, Conductivity, Reactivity (cyanide and sulfide). Samples were submitted to Alpha Analytical of Westborough, Massachusetts, following chain-of-custody protocols. Laboratory data for soil samples collected during this time period are summarized on Table 1 and laboratory data reports are provided in Appendix C.

The analytical parameters and sampling frequencies were selected to satisfy acceptance criteria for disposal of materials at Massachusetts lined and unlined landfills (Table 1 parameters in Policy # Comm-97-001) or the acceptance criteria identified by out-of-state disposal facilities and RCS-1 facilities in Massachusetts.

Asbestos in Soil Sampling and Analyses

Due to the detection of asbestos in soil associated with buried demolition debris that was excavated during construction activities at the Site, a RAM Plan modification was prepared in tandem with an NT Work Plan. The NT Plan was prepared by Environmental Health & Engineering, Inc. ("EH&E") of Newton, Massachusetts and was submitted to MassDEP on November 16, 2016.

Per the RAM Plan modifications and November 2016 NT Plan, soil sampling for asbestos has been performed where demolition debris was visible and could potentially contain asbestos. Soil samples are collected at a frequency of one four-point composite sample per 100 cubic yards of soil. With this sampling approach, multiple asbestos in soil samples were collected from designated pre-characterization cells and RAM Project Area. Areas that tested positive for asbestos in soil were identified on soil excavation/management figures prepared by GZA and the Contractor, Suffolk Construction.

During this reporting period, approximately 27 soil samples were collected from Site areas to be excavated that had not been previously characterized; samples were submitted to Eurofins/CEI Labs of Cary, North Carolina, for analysis of asbestos in soil by PLM methodology as discussed with MassDEP. In summary, all 27 samples were collected from in between the service road and the MBTA tracks in preparation for construction of the BESS. Laboratory testing results indicated that of the 27 soil samples collected and submitted for asbestos analysis, 26 soil samples were reported as "not detected" ("ND") and 1 sample was reported at containing <1% asbestos. Laboratory testing results for the collected samples are included in Appendix D.

PERIMETER AIR MONITORING DATA

AirLogics

During this reporting period, perimeter dust monitoring was performed on a continuous basis at one station (STA-3) between August 1, 2018 and October 30, 2018 using the AirLogics Perimeter air monitoring system. After October 30th, dust monitoring was performed daily using hand held particulate monitoring equipment proximate to active excavation and soil management areas. The AirLogics system used at the Site was configured to generate 15-minute time-weighted averages of particulate levels. The system was programmed based on an action level for Respirable Particulate Matter (up to 10 micrometers in size (PM10)) of 1,400 µg/m^3 over upwind background along with warning level alarms set at lower thresholds designed to provide Project personnel with an advance warning of potential air quality issues. Weekly air monitoring summary sheets for this reporting period are included in Appendix E. Air emissions were within perimeter action limits during this RAM Status Report performance period. Water trucks to control dust generation continue to be utilized in the RAM Project Area.

Asbestos-Related Activities and Monitoring

As described in the first RAM Plan modification and NT Plans, air sampling stations for asbestos sampling were initially established at the four Site perimeter stations (AirLogics locations) and at four interior site monitoring locations on the Site, with two stations north of the garage excavation and two stations south of the garage excavation area. Monitoring was also performed at four compass direction locations around individual work zones where asbestos-impacted soil was or could be disturbed. Samples were collected and analyzed for total airborne fibers, including but not specific to asbestos, using PCM methodology. Samples were collected on 4-hour monitoring periods and analyzed on-Site for total fiber count for real-time evaluation on the day the work was being performed.

Since the implementation of these air monitoring activities, no perimeter sampling results have exceeded the established action level of 0.010 f/cc. The absence of action level exceedances of asbestos fibers confirmed that the controls put in place as part of the Modified RAM Plan were effective at reducing migration of airborne fibers, and that the airborne

migration of fibers is not a significant exposure pathway at the RAM Project Area. Thus, on February 2, 2017, following a discussion with Mr. MacAuley of MassDEP, a second RAM Plan modification was submitted to MassDEP which removed the requirement for the perimeter and interior air sampling for total airborne fibers, but still required work zone monitoring at locations where asbestos-impacted soil was or could be disturbed. Work zone monitoring is now performed on an as-needed basis.

Equipment and vehicles that contact asbestos-impacted soil were decontaminated using a wheel wash prior to moving onto public streets. Wastewater from the decontamination was processed through 5-micron filter bags and discharged into a re-infiltration pit immediately upgradient of the wheel wash. Used 5-micron filtration bags were disposed of as asbestos-containing material.

In addition, third-party monitoring and clearance monitoring was performed during this RAM reporting period by Massachusetts-licensed asbestos monitors from EH&E, of Newton, Massachusetts, during the abatement of soils containing asbestos at three separate locations within the RAM area in August 2018 and February 2019. Excavated asbestos impacted materials were loaded into appropriately labeled and sealed containers for off-Site disposal.

NewRoads Environmental ("NewRoads"), a Massachusetts Licensed Asbestos Contractor (AC000822) contracted by the site subcontractor, J. Derenzo, performed asbestos abatement and coordinated off-Site disposal of the abated asbestos materials. These activities were communicated to Mr. John MacAuley of MassDEP prior to implementation, and a Bureau of Waste Prevention AQ 04 (ANF-001) was filed for soil removal in August 2018 and January 2019.

(c) Details of and/or Plans for the Management of Remediation Waste, Remedial Wastewater and/or Remedial Additives

During this RAM Status Report performance period, approximately 14,670 tons of impacted soil was removed from the RAM Project Area and transported to various disposal facilities. A breakdown of the approximate total soil volumes received per facility is presented below.

- Approximately 9,900 tons of soil to a Massachusetts Unlined Landfill (Clinton Landfill) under BOLs from the main site;
- Approximately 1,140 tons of soil to a Massachusetts Lined Landfill (Fitchburg Landfill) under BOLs from the main site;
- Approximately 2,490 tons of soil to Turnkey Landfill (TREE) in Rochester, New Hampshire (RCRA D Facility) under BOLs from the main site;
- Approximately 120 tons of asbestos-impacted soil to TREE in Rochester, New Hampshire (RCRA D Facility) under BOLs and Asbestos Shipping Records from the BESS area, Retail Parcel, and the Southeast corner of the Site; and
- Approximately 1,020 tons of soil to a Massachusetts RCS-1 disposal facility (Saugus Landfill) under Material Shipping Records ("MSRs") from the Retail Parcel and main site.

BOL attestations associated with soils disposed of off-Site during this RAM reporting period are being prepared by GZA. BOLs, Asbestos Shipping Records, and Hazardous Waste Manifest tracking documents will be provided to MassDEP as separate submittals.

(d) Any other information that the Department during its review and evaluation of a Status Report determines to be necessary to complete said Status Report, in view of Site specific circumstances and conditions

No other specific information has been requested by the MassDEP.

(e) An LSP Opinion as to whether the Release Abatement Measure is being conducted in conformance with the Release Abatement Measure Plan and any conditions of approval established by the Department

The LSP Opinion concerning whether the RAM is being conducted in conformance with the Modified RAM Plan is included on the Transmittal Form (BWSC106) attached to this RAM Status Report in Appendix A. It is the LSP's Opinion that this RAM is being conducted in conformance with the May 3, 2016, RAM Plan and subsequent RAM Plan Modifications.

We trust this information satisfies your requirements. Should you have questions, please feel free to contact the undersigned.

Sincerely,
GZA GEOENVIRONMENTAL, INC.

Daniel R. Scanlon
Assistant Project Manager

Matthew M. Smith
Consultant Reviewer

Lawrence Feldman, LSP
Senior Principal

Attachments:
Table 1 – Soil Disposal Analytical Test Results
Figure 1 - Site Locus Map
Figure 2 - RAM Project Area
Figure 3 - Site Plan
Appendix A - Transmittal Form BWSC106
Appendix B – Limitations
Appendix C - Soil Disposal Laboratory Reports
Appendix D – Asbestos in Soil Laboratory Testing Reports
Appendix E - AirLogics Weekly Reports

Tables

TABLE 1
SOIL PRECHARACTERIZATION ANALYTICAL TEST RESULTS
Encore Boston Harbor
One Broadway
Everett, Massachusetts

Analyte	Maximum Reported Concentration All Samples in List	Precharacterization Cell Sample ID Laboratory Work Order Sampling Date	BF-1 BF-1 L1900497 1/4/2019	BF-2 BF-2 L1900497 1/4/2019	BF-3 BF-3 L1900350 1/3/2019	BF-4 BF-4 L1900350/L1900765 1/3/2019	BF-5 BF-5 L1900350/L1900765 1/3/2019	BF-6 BF-6 L1900350/L1900765 1/3/2019	CRANE MAT ROAD CRANE MAT ROAD L1844736/L1845121 11/1/2018	ELECTRICSHACKRAMP1 ELECTRIC SHACK RAMP 1 L1834152/L1835121 8/29/2018	ELECTRICSHACKRAMP2 ELECTRIC SHACK RAMP 2 L1834152/L1835121 8/29/2018
Total Metals		Units									
Antimony	29.8	mg/kg	<2.29	<2.38	<2.25	6.96	29.8	<2.1	--	5.15	6.31
Arsenic	26.2	mg/kg	3.4	8.37	8.21	24.8	22.6	8.48	18.1	23.4	26.2
Barium	120	mg/kg	13.8	83.7	43	83.7	86.9	32.7	29.1	43.4	120
Beryllium	0.31	mg/kg	<0.229	<0.238	0.31	<0.27	<0.234	<0.21	--	0.22	0.268
Cadmium	1.78	mg/kg	<0.458	0.978	<0.449	<0.54	<0.468	<0.421	<0.428	0.978	1.78
Chromium	41.8	mg/kg	5.19	41.8	24.9	12.5	6.86	3.08	7.69	7.28	11.2
Lead	472	mg/kg	16.3	11.2	36.2	114	472	108	109	224	316
Mercury	2.26	mg/kg	<0.073	<0.077	<0.074	2.26	0.9	0.512	0.715	1.07	1.73
Nickel	27	mg/kg	5.21	27	13.5	8.19	5.95	2.78	--	6.09	9.98
Selenium	3.51	mg/kg	<2.29	<2.38	<2.25	<2.7	3.51	<2.1	<2.14	3.34	<2.23
Silver	0.995	mg/kg	<0.458	<0.477	<0.449	<0.54	<0.468	<0.421	<0.428	<0.431	0.995
Thallium	ND	mg/kg	<2.29	<2.38	<2.25	<2.7	<2.34	<2.1	--	<2.16	<2.23
Vanadium	54.3	mg/kg	9.15	54.3	28.8	19.4	14.8	4.74	--	14.1	16.8
Zinc	345	mg/kg	65	88.1	33.1	32.4	74.4	49.8	--	231	345
Metals by Toxicity Characteristic Leaching Procedure (TCLP)											
Lead, TCLP	1.36	mg/l	--	--	--	<0.50	<0.50	<0.50	<0.50	1.36	0.501
Herbicides											
2,4,5-T	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
2,4,5-TP (Silvex)	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
2,4-D	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
2,4-DB	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
Dalapon	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
Dicamba	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
Dichlorprop	ND	mg/kg	<0.038	<0.04	<0.038	<0.045	<0.2	<0.036	<0.036	<0.036	<0.037
MCPA	ND	mg/kg	<3.8	<4	<3.8	<4.5	<20	<3.6	<3.6	<3.6	<3.7
MCPP	ND	mg/kg	<3.8	<4	<3.8	<4.5	<20	<3.6	<3.6	<3.6	<3.7
Total Herbicides	ND	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides											
4,4'-DDD	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
4,4'-DDE	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
4,4'-DDT	0.0122	mg/kg	<0.00337	<0.00358	<0.00346	<0.00396	0.0122	0.00423	0.0063	<0.00316	<0.0652
Aldrin	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
alpha-BHC	ND	mg/kg	<0.000748	<0.000796	<0.00077	<0.000879	<0.000773	<0.000708	<0.000711	<0.000702	<0.0145
beta-BHC	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Chlordane	ND	mg/kg	<0.0146	<0.0155	<0.015	<0.0171	<0.0151	<0.0138	<0.0139	<0.0137	<0.283
delta-BHC	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Dieldrin	0.0171	mg/kg	<0.00112	<0.00119	<0.00116	<0.00132	0.00597	0.0171	<0.00107	<0.00105	<0.0217
Endosulfan I	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Endosulfan II	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Endosulfan sulfate	ND	mg/kg	<0.000748	<0.000796	<0.00077	<0.000879	<0.000773	<0.000708	<0.000711	<0.000702	<0.0145
Endrin	ND	mg/kg	<0.000748	<0.000796	<0.00077	<0.000879	<0.000773	<0.000708	<0.000711	<0.000702	<0.0145
Endrin ketone	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Heptachlor	ND	mg/kg	<0.000898	<0.000955	<0.000924	<0.00106	<0.000928	<0.000849	<0.000854	<0.000842	<0.0174
Heptachlor epoxide	ND	mg/kg	<0.00337	<0.00358	<0.00346	<0.00396	<0.00348	<0.00318	<0.0032	<0.00316	<0.0652
Hexachlorobenzene	ND	mg/kg	<0.0018	<0.00191	<0.00185	<0.00211	<0.00186	<0.0017	<0.00171	<0.00168	<0.0348
Lindane	ND	mg/kg	<0.000599	<0.000636	<0.000616	<0.000704	<0.000619	<0.000566	<0.000569	<0.000562	<0.0116
Methoxychlor	ND	mg/kg	<0.00337	<0.00358	<0.00346	<0.00396	<0.00348	<0.00318	<0.0032	<0.00316	<0.0652
Toxaphene	ND	mg/kg	<0.0337	<0.0358	<0.0346	<0.0396	<0.0348	<0.0318	<0.032	<0.0316	<0.652
Total Pesticides	0.02133	mg/kg	ND	ND	ND	ND	0.01817	0.02133	0.0063	ND	ND

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Polychlorinated Biphenyls											
Aroclor 1016	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Aroclor 1221	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Aroclor 1232	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Aroclor 1242	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Aroclor 1248	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Aroclor 1254	0.137	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	0.0958	0.0599	0.137
Aroclor 1260	0.0743	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	0.0743	<0.0352	<0.0361	0.0465	0.0513
Aroclor 1262	0.0653	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	0.0653	<0.0353	<0.0367
Aroclor 1268	ND	mg/kg	<0.0369	<0.0399	<0.0371	<0.0445	<0.0403	<0.0352	<0.0361	<0.0353	<0.0367
Total PCBs	0.1883	mg/kg	ND	ND	ND	ND	0.0743	ND	0.1611	0.1064	0.1883
Total Petroleum Hydrocarbons	**362**	mg/kg	<37	<39	183	90.2	362	<36.2	178	160	243
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
1,1,1-Trichloroethane	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
1,1,2,2-Tetrachloroethane	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
1,1,2-Trichloroethane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,1-Dichloroethane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,1-Dichloroethene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,1-Dichloropropene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
1,2,3-Trichlorobenzene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,2,3-Trichloropropane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,2,4-Trichlorobenzene	ND	mg/kg	<0.0017	<0.2	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,2,4-Trimethylbenzene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,2-Dibromo-3-chloropropane	ND	mg/kg	<0.0026	<0.0035	<0.0024	<0.0036	<0.0028	<0.0029	<0.0024	<0.0025	<0.0026
1,2-Dibromoethane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,2-Dichlorobenzene	ND	mg/kg	<0.0017	<0.2	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,2-Dichloroethane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,2-Dichloropropane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
1,3,5-Trimethylbenzene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,3-Dichlorobenzene	ND	mg/kg	<0.0017	<0.2	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,3-Dichloropropane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,4-Dichlorobenzene	ND	mg/kg	<0.0017	<0.2	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
1,4-Dioxane	ND	mg/kg	<0.087	<0.12	<0.082	<0.12	<0.093	<0.096	<0.079	<0.083	<0.086
2,2-Dichloropropane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
2-Butanone	ND	mg/kg	<0.0087	<0.012	<0.0082	<0.012	<0.0093	<0.0096	<0.0079	<0.0083	<0.0086
2-Hexanone	ND	mg/kg	<0.0087	<0.012	<0.0082	<0.012	<0.0093	<0.0096	<0.0079	<0.0083	<0.0086
4-Methyl-2-pentanone	ND	mg/kg	<0.0087	<0.012	<0.0082	<0.012	<0.0093	<0.0096	<0.0079	<0.0083	<0.0086
Acetone	0.027	mg/kg	0.014	<0.012	<0.0082	<0.012	0.013	<0.0096	0.027	0.014	<0.0086
Benzene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Bromobenzene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Bromochloromethane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Bromodichloromethane	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Bromoform	ND	mg/kg	<0.0035	<0.0047	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
Bromomethane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Carbon disulfide	ND	mg/kg	<0.0087	<0.012	<0.0082	<0.012	<0.0093	<0.0096	<0.0079	<0.0083	<0.0086
Carbon tetrachloride	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Chlorobenzene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Chloroethane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Chloroform	ND	mg/kg	<0.0013	<0.0018	<0.0012	<0.0018	<0.0014	<0.0014	<0.0012	<0.0012	<0.0013
Chloromethane	ND	mg/kg	<0.0035	<0.0047	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
cis-1,2-Dichloroethene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
cis-1,3-Dichloropropene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Dibromochloromethane	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Dibromomethane	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Dichlorodifluoromethane	ND	mg/kg	<0.0087	<0.012	<0.0082	<0.012	<0.0093	<0.0096	<0.0079	<0.0083	<0.0086
Diethyl ether	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Di-isopropyl ether	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Ethyl tertiary-butyl ether	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Ethylbenzene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Hexachlorobutadiene	ND	mg/kg	<0.0035	<0.2	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
Isopropylbenzene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Methyl tert-butyl ether	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Methylene chloride	ND	mg/kg	<0.0044	<0.0058	<0.0041	<0.0061	<0.0047	<0.0048	<0.004	<0.0041	<0.0043
Naphthalene	ND	mg/kg	<0.0035	<0.2	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
n-Butylbenzene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
n-Propylbenzene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
o-Chlorotoluene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
o-Xylene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
p/m-Xylenes	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
p-Chlorotoluene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
p-Isopropyltoluene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086

TABLE 1
SOIL PRECHARACTERIZATION ANALYTICAL TEST RESULTS
Encore Boston Harbor
One Broadway
Everett, Massachusetts

Analyte	Maximum Reported Concentration All Samples in List	Precharacterization Cell Sample ID Laboratory Work Order Sampling Date	BF-1 BF-1 L1900497 1/4/2019	BF-2 BF-2 L1900497 1/4/2019	BF-3 BF-3 L1900350 1/3/2019	BF-4 BF-4 L1900350/L1900765 1/3/2019	BF-5 BF-5 L1900350/L1900765 1/3/2019	BF-6 BF-6 L1900350/L1900765 1/3/2019	CRANE MAT ROAD CRANE MAT ROAD L1844736/L1845121 11/1/2018	ELECTRICSHACKRAMP1 ELECTRIC SHACK RAMP 1 L1834152/L1835121 8/29/2018	ELECTRICSHACKRAMP2 ELECTRIC SHACK RAMP 2 L1834152/L1835121 8/29/2018
sec-Butylbenzene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Styrene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Tert-amyl methyl ether	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Tert-Butylbenzene	ND	mg/kg	<0.0017	<0.0023	<0.0016	<0.0024	<0.0019	<0.0019	<0.0016	<0.0016	<0.0017
Tetrachloroethene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Tetrahydrofuran	ND	mg/kg	<0.0035	<0.0047	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
Toluene	0.0016	mg/kg	0.0013	<0.0012	<0.00082	0.0016	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
trans-1,2-Dichloroethene	ND	mg/kg	<0.0013	<0.0018	<0.0012	<0.0018	<0.0014	<0.0014	<0.0012	<0.0012	<0.0013
trans-1,3-Dichloropropene	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Trichloroethene	ND	mg/kg	<0.00044	<0.00058	<0.00041	<0.00061	<0.00047	<0.00048	<0.0004	<0.00041	<0.00043
Trichlorofluoromethane	ND	mg/kg	<0.0035	<0.0047	<0.0033	<0.0049	<0.0037	<0.0038	<0.0032	<0.0033	<0.0034
Vinyl chloride	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Xylenes, Total	ND	mg/kg	<0.00087	<0.0012	<0.00082	<0.0012	<0.00093	<0.00096	<0.00079	<0.00083	<0.00086
Total VOCs	0.027	mg/kg	0.0153	ND	ND	0.0016	0.013	ND	0.027	0.014	ND
Semi-Volatile Organic Compounds											
1,2,4-Trichlorobenzene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
1,2-Dichlorobenzene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
1,3-Dichlorobenzene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
1,4-Dichlorobenzene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2,4,5-Trichlorophenol	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2,4,6-Trichlorophenol	ND	mg/kg	<0.12	<0.12	<0.12	<0.14	<0.12	<0.11	<0.1	<0.11	<0.11
2,4-Dichlorophenol	ND	mg/kg	<0.17	<0.18	<0.17	<0.2	<0.18	<0.16	<0.16	<0.16	<0.17
2,4-Dimethylphenol	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2,4-Dinitrophenol	ND	mg/kg	<0.93	<0.98	<0.92	<1.1	<0.96	<0.86	<0.84	<0.87	<0.89
2,4-Dinitrotoluene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2,6-Dinitrotoluene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2-Chloronaphthalene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2-Chlorophenol	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2-Methylnaphthalene	ND	mg/kg	<0.23	<0.24	<0.23	<0.27	<0.24	<0.22	<0.21	<0.22	<0.22
2-Methylphenol	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
2-Nitrophenol	ND	mg/kg	<0.42	<0.44	<0.42	<0.49	<0.43	<0.39	<0.38	<0.39	<0.4
3,3'-Dichlorobenzidine	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
3-Methylphenol/4-Methylphenol	ND	mg/kg	--	--	--	--	--	--	<0.25	<0.26	<0.27
4-Bromophenyl phenyl ether	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
4-Chloroaniline	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
4-Nitrophenol	ND	mg/kg	<0.27	<0.28	<0.27	<0.32	<0.28	<0.25	<0.25	<0.25	<0.26
Acenaphthene	ND	mg/kg	<0.16	<0.16	<0.15	<0.18	<0.16	<0.14	<0.14	<0.14	<0.15
Acenaphthylene	0.15	mg/kg	<0.16	<0.16	0.15	<0.18	<0.16	<0.14	<0.14	<0.14	<0.15
Acetophenone	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Aniline	ND	mg/kg	<0.23	<0.24	<0.23	<0.27	<0.24	<0.22	<0.21	<0.22	<0.22
Anthracene	0.24	mg/kg	<0.12	<0.12	0.19	<0.14	0.15	0.14	0.16	0.11	0.24
Azobenzene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Benzo(a)anthracene	0.77	mg/kg	<0.12	<0.12	0.63	<0.14	0.57	0.77	0.43	0.51	0.77
Benzo(a)pyrene	0.72	mg/kg	<0.16	<0.16	0.5	<0.18	0.52	0.56	0.39	0.53	0.72
Benzo(b)fluoranthene	1.1	mg/kg	<0.12	<0.12	1.1	<0.14	0.91	1.1	0.57	0.63	1
Benzo(ghi)perylene	0.45	mg/kg	<0.16	<0.16	0.33	<0.18	0.43	0.31	0.24	0.45	0.43
Benzo(k)fluoranthene	0.42	mg/kg	<0.12	<0.12	0.36	<0.14	0.29	0.42	0.17	0.16	0.27
Bis(2-chloroethoxy)methane	ND	mg/kg	<0.21	<0.22	<0.21	<0.24	<0.22	<0.19	<0.19	<0.2	<0.2
Bis(2-chloroethyl)ether	ND	mg/kg	<0.17	<0.18	<0.17	<0.2	<0.18	<0.16	<0.16	<0.16	<0.17
Bis(2-chloroisopropyl)ether	ND	mg/kg	<0.23	<0.24	<0.23	<0.27	<0.24	<0.22	<0.21	<0.22	<0.22
Bis(2-ethylhexyl)phthalate	1.3	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	1.3	0.69
Butyl benzyl phthalate	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Chrysene	0.84	mg/kg	<0.12	<0.12	0.74	<0.14	0.67	0.84	0.41	0.52	0.75
Dibenzo(a,h)anthracene	0.21	mg/kg	<0.12	<0.12	<0.12	<0.14	0.12	<0.11	<0.1	0.21	0.11
Dibenzofuran	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Diethyl phthalate	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Dimethylphthalate	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Di-n-butylphthalate	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Di-n-octyl phthalate	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Fluoranthene	1.5	mg/kg	<0.12	<0.12	1.1	0.15	0.91	0.95	0.94	0.6	1.5
Fluorene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Hexachlorobenzene	ND	mg/kg	<0.12	<0.00191	<0.12	<0.14	<0.12	<0.11	<0.1	<0.11	<0.11
Hexachlorobutadiene	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Hexachloroethane	ND	mg/kg	<0.16	<0.16	<0.15	<0.18	<0.16	<0.14	<0.14	<0.14	<0.15
Indeno(1,2,3-cd)pyrene	0.47	mg/kg	<0.16	<0.16	0.41	<0.18	0.47	0.4	0.27	0.31	0.45
Isophorone	ND	mg/kg	<0.17	<0.18	<0.17	<0.2	<0.18	<0.16	<0.16	<0.16	<0.17
Naphthalene	0.26	mg/kg	<0.19	<0.2	0.26	<0.23	0.24	<0.18	<0.18	<0.18	<0.18
Nitrobenzene	ND	mg/kg	<0.17	<0.18	<0.17	<0.2	<0.18	<0.16	<0.16	<0.16	<0.17

TABLE 1
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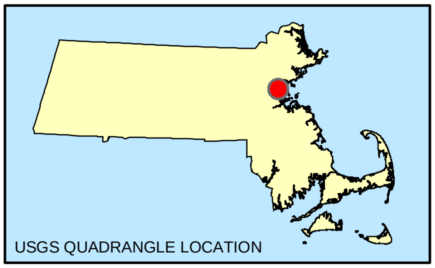
Encore Boston Harbor
One Broadway
Everett, Massachusetts

Analyte	Maximum Reported Concentration All Samples in List	Precharacterization Cell Sample ID Laboratory Work Order Sampling Date	BF-1 BF-1 L1900497 1/4/2019	BF-2 BF-2 L1900497 1/4/2019	BF-3 BF-3 L1900350 1/3/2019	BF-4 BF-4 L1900350/L1900765 1/3/2019	BF-5 BF-5 L1900350/L1900765 1/3/2019	BF-6 BF-6 L1900350/L1900765 1/3/2019	CRANE MAT ROAD CRANE MAT ROAD L1844736/L1845121 11/1/2018	ELECTRICSHACKRAMP1 ELECTRIC SHACK RAMP 1 L1834152/L1835121 8/29/2018	ELECTRICSHACKRAMP2 ELECTRIC SHACK RAMP 2 L1834152/L1835121 8/29/2018
Pentachlorophenol	ND	mg/kg	<0.39	<0.41	<0.38	<0.45	<0.4	<0.36	<0.35	<0.36	<0.37
Phenanthrene	0.84	mg/kg	<0.12	<0.12	0.55	<0.14	0.57	0.36	0.53	0.32	0.84
Phenol	ND	mg/kg	<0.19	<0.2	<0.19	<0.23	<0.2	<0.18	<0.18	<0.18	<0.18
Pyrene	1.2	mg/kg	<0.12	<0.12	0.93	<0.14	0.83	1	0.78	0.56	1.2
Pyridine	ND	mg/kg	<0.21	<0.22	<0.21	<0.24	<0.22	<0.19	<0.19	<0.2	<0.2
Total SVOCs	8.97	mg/kg	ND	ND	7.25	0.15	6.68	6.85	4.89	6.21	8.97
Classical Chemistry											
Conductivity	510	umhos/cm	18	25	13	18	20	11	510	220	390
Corrosivity (pH)	4.8-7.8	SU	7.6	6.8	4.8	6.4	6.7	7.4	7.8	7.8	7.4
Flashpoint	>150	deg f	>150	>150	>150	>150	>150	>150	>150	>150	>150
Ignitability	N.I.	none	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
Reactive Cyanide	ND	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10
Reactive Sulfide	ND	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes:
1. Samples in which detected concentrations of total metals exceeded 20 times the corresponding TCLP regulatory concentration were run for TCLP by EPA method 1311.
2. A < sign indicates that a concentration was below the laboratory reporting limit. A -- indicates that a sample was not analyzed for the corresponding compound.

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

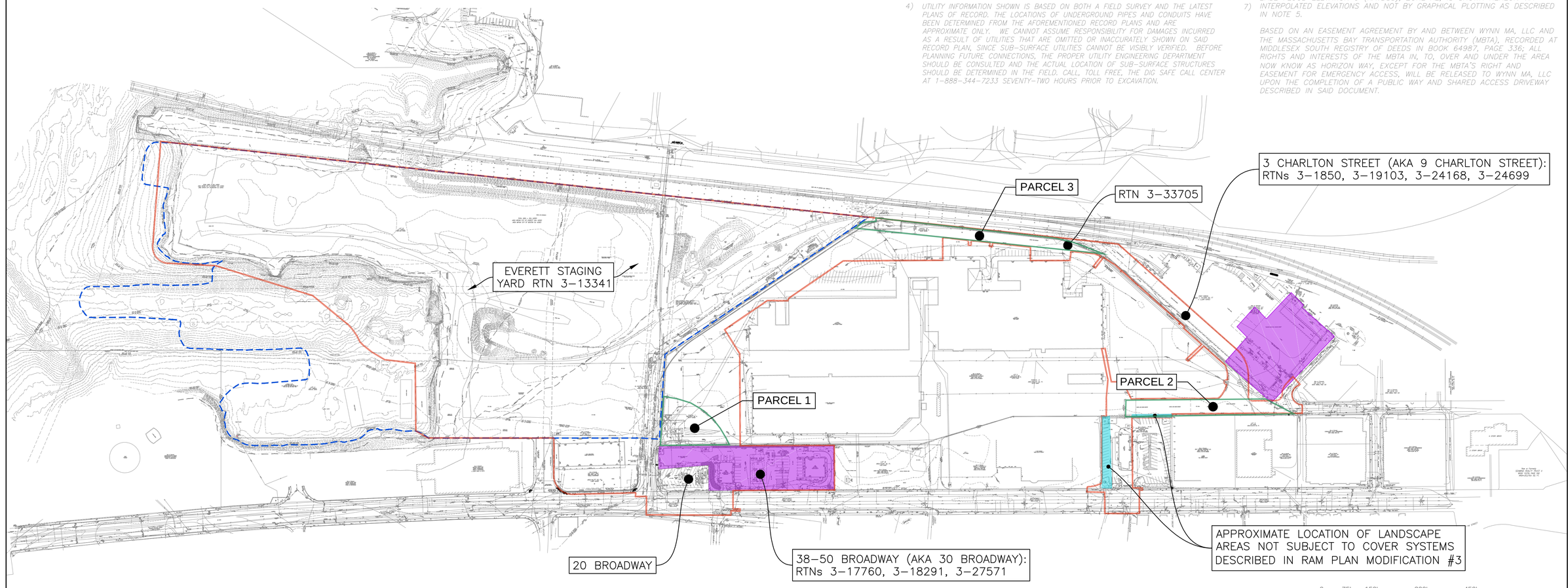
N W E S

PROJ. MGR.: NJC DESIGNED BY: NJC REVIEWED BY: LF OPERATOR: SMW DATE: FEBRUARY 2019	SITE LOCUS MAP ENCORE BOSTON HARBOR EVERETT, MASSACHUSETTS	JOB NO. 01.0171521.52 FIGURE NO. 1

NOTES:

1) ELEVATIONS ESTABLISHED BY GPS
   TEMPORARY BENCH MARKS SET:
   TBM-1, X-CUT ON SOUTHERLY MOST FLANGE BOLT OF A HYDRANT, LOCATED AT THE INTERSECTION OF THE NORTHWESTERLY SIDELINE OF ALFORD STREET AND THE SOUTHWESTERLY SIDELINE OF HORIZON WAY (A.K.A CHEMICAL LANE). AS SHOWN HEREON. ELEVATION = 13.38
   TBM-2, SPIKE SET, 1 FOOT ABOVE GRADE IN UTILITY POLE, ON THE NORTHEASTERLY SIDE OF HORIZON WAY (A.K.A. CHEMICAL LANE) APPROXIMATELY 135 FEET FROM THE NORTHWESTERLY SIDELINE OF BROADWAY. AS SHOWN HEREON. ELEVATION = 12.54
2) ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3) CONTOUR INTERVAL EQUALS ONE (1) FOOT.
4) UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND THE LATEST PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLAN, SINCE SUB-SURFACE UTILITIES CANNOT BE VISIBLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUB-SURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL, TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
5) BY GRAPHICAL PLOTTING ONLY, THE PROPERTIES SHOWN HEREON LIE WITHIN A ZONE "AE", AN AREA WITHIN THE 1% ANNUAL CHANCE FLOOD WITH BASE FLOOD ELEVATIONS DETERMINED; A ZONE "X" (SHADED), AN AREA WITHIN THE 0.2% ANNUAL CHANCE FLOOD; AND ZONE "X" (UNSHADED), AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR SUFFOLK COUNTY, MASSACHUSETTS, MAP NUMBER 25025C0014G, AND COMMUNITY PANEL NUMBER 250286, HAVING AN EFFECTIVE DATE OF SEPTEMBER 25, 2009 AND FLOOD INSURANCE RATE MAP FOR MIDDLESEX COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0439E, AND COMMUNITY PANEL NUMBER 250192, HAVING AN EFFECTIVE DATE OF JUNE 4, 2010.
6) BASE FLOOD ELEVATION 9 (NAVD88), ZONE AE, IS SHOWN HEREON VIA
7) INTERPOLATED ELEVATIONS AND NOT BY GRAPHICAL PLOTTING AS DESCRIBED IN NOTE 5.

BASED ON AN EASEMENT AGREEMENT BY AND BETWEEN WYNN MA, LLC AND THE MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (MBTA), RECORDED AT MIDDLESEX SOUTH REGISTRY OF DEEDS IN BOOK 64987, PAGE 336; ALL RIGHTS AND INTERESTS OF THE MBTA IN, TO, OVER AND UNDER THE AREA NOW KNOW AS HORIZON WAY, EXCEPT FOR THE MBTA'S RIGHT AND EASEMENT FOR EMERGENCY ACCESS, WILL BE RELEASED TO WYNN MA, LLC UPON THE COMPLETION OF A PUBLIC WAY AND SHARED ACCESS DRIVEWAY DESCRIBED IN SAID DOCUMENT.



LEGEND

S	SEWER MANHOLE	FND	FOUND
D	DRAIN MANHOLE	±	MORE OR LESS
E	ELECTRIC MANHOLE	DH	DRILL HOLE
T	TELEPHONE MANHOLE	VGC	VERTICAL GRANITE CURB
C	CABLE TV MANHOLE	CLF	CHAIN LINK FENCE
	HYDRANT	BIT	BITUMINOUS
	WATER SHUT OFF	CONC	CONCRETE
	GAS SHUT OFF	NVP	NO VISIBLE PIPES
	CATCH BASIN		RAILROAD TRACKS
	GUY WIRE		GUARD RAIL
	UTILITY POLE	X	METAL FENCE
	LIGHT POLE	S	SEWER
	ELECTRIC HANDHOLE	D	DRAIN
	SIGN	W	WATER
FA	FIRE ALARM	G	GAS
	OBSERVATION WELL	OHW	OVERHEAD WIRES
GP	GATE POST		RETAINING WALL
	BOUND FOUND		
SB	STONE BOUND		
CB	CONCRETE BOUND		
7	INDICATES COMMON OWNERSHIP		
	HANDICAP RAMP		

LEGEND

- AUL AREA (APPROXIMATE)
- FORMER EVERETT STAGING YARD DISPOSAL SITE BOUNDARY (RTN 3-13341)
- RAM PROJECT AREA BOUNDARY

NOTES:
1. AULs ARE SHOWN ONLY ON PROPERTIES WITHIN RAM BOUNDARIES; ADDITIONAL AULs EXIST IN THE VICINITY.
2. BASE PLAN FROM FELDMAN PROFESSIONAL LAND SURVEYORS PLAN TITLED "EXISTING CONDITIONS PLAN, BROADWAY (ROUTE 99), EVERETT, MASS." DATED MARCH 20, 2015.

ENCORE BOSTON HARBOR
ONE BROADWAY EVERETT,
MASSACHUSETTS

PROPERTIES WITHIN RAM BOUNDARY

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: WYNN MA, LLC	
PROJ MGR: DEL	REVIEWED BY: MMS	CHECKED BY: LF	FIGURE 2
DESIGNED BY: MMS	DRAWN BY: JJZ	SCALE: AS SHOWN	
DATE: FEBRUARY 2019	PROJECT NO. 01.0171521.52	REVISION NO.	

0 30 60 120 180
SCALE IN FEET

ENCORE BOSTON HARBOR
EVERETT, MA

SITE PLAN

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

PROJ MGR: NJC	REVIEWED BY: LF	CHECKED BY: NJC	FIGURE 3
DESIGNED BY: NJC	DRAWN BY: SMW	SCALE: 1 INCH = 80 FT	
DATE: FEBRUARY 2019	PROJECT NO. 01.0171521.52	REVISION NO.	

 J:\Branch\FORT WASHINGTON\14.0079513.00\FIGURES\171521_RAM_FEB2019.mxd, 2/15/2019, 2:49:13 PM, stephen.washburn

Appendix A - Transmittal Form BWSC106

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 106 12

Release Tracking Number
3 - 13341

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

A. SITE LOCATION:

1. Site Name/Location Aid: EVERETT STAGING YARD
2. Street Address: 1 BROADWAY
3. City/Town: EVERETT 4. Zip Code: 021490000

☑ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.

☐ a. Tier I ☐ b. Tier ID ☑ c. Tier II

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

1. List Submittal Date of Initial RAM Plan (if previously submitted): 5/3/2016 (mm/dd/yyyy)

☐ 2. Submit an **Initial Release Abatement Measure (RAM) Plan**.

☐ a. Check here if the RAM is being conducted as part of the construction of a permanent structure. If checked, you must specify what type of permanent structure is to be erected in or in the immediate vicinity of the area where the RAM is to be conducted.

b. Specify type of permanent structure: (check all that apply) ☐ i. School ☐ ii. Residential ☐ iii. Commercial ☐ iv. Industrial ☐ v. Other Specify:

☐ 3. Submit a **Modified RAM Plan** of a previously submitted RAM Plan.

☑ 4. Submit a **RAM Status Report**.

☐ 5. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP, concurrent with a RAM Status Report.)

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

b. Frequency of Submittal:

☐ i. A Remedial Monitoring Report(s) submitted every six months, concurrent with a RAM Status Report.
☐ ii. A Remedial Monitoring Report(s) submitted annually, concurrent with a RAM Status Report.

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

A separate BWSC106A, RAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 6. Submit a **RAM Completion Statement**.

☐ 7. Submit a **Revised RAM Completion Statement**.

8. Provide Additional RTNs:

☑ a. Check here if this RAM Submittal covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here. This section is intended to allow a RAM to cover more than one unclassified RTN and not show permanent linkage to a Primary Tier Classified RTN.

b. Provide the additional Release Tracking Number(s) covered by this RAM Submittal. 3 - 17760 3 - 1850

☐ 9. Include in the **RAM Plan** or **Modified RAM Plan** 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 RAM:

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 ☑ i. Soil
☑ j. Ground Water ☑ 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
☐ u. 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
☐ j. UST Describe: ☐ k. Vehicle ☐ l. Boat/Vessel
☐ m. Unknown ☑ n. Other: HISTORICAL FILL AND MANUFACTURING

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
☐ k. UST Removal Describe:
☐ l. Unknown ☑ m. Other: HISTORICAL FILL AND MANUFACTURING

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

☑ a. Oils ☑ b. Chlorinated Solvents
☑ c. Heavy Metals ☑ d. Others Specify: PCBS, ASBESTOS

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
☐ 15. Monitored Natural Attenuation
☐ 16. In-Situ Chemical Oxidation

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

☑ 17. 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:

☑ c. Landfill ☐ i. Cover Estimated volume in cubic yards

Receiving Facility: Town: State:

☑ ii. Disposal Estimated volume in cubic yards 1550

Receiving Facility: TURNKEY Town: ROCHESTER State: NH

☐ 18. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount:

b. Receiving Facility: Town: State:

c. Receiving Facility: Town: State:

☐ 19. Removal of Other Contaminated Media:

a. Specify Type and Volume:

b. Receiving Facility: Town: State:

c. Receiving Facility: Town: State:

☑ 20. Other Response Actions:

Describe: OTHER SOIL (CY): APPROX. 6,190 CY CLINTON LANDFILL, CLINTON, MA; APPROX. 640 CY SAUGUS LANDFILL, SAUGUS, MA; APPROX 710 CY FITCHBURG LANDFILL, FITCHBURG, MA;

☐ 21. 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 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 a **Release Abatement Measure 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 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 a **Release Abatement Measure Status Report** and/or **Remedial Monitoring Report** is 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 a **Release Abatement Measure Completion Statement** 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:	7812783700	5. Ext.:		6. Email:	
7. Signature:	LAWRENCE FELDMAN				
8. Date:	2/28/2019 (mm/dd/yyyy)	9. LSP Stamp:			

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

F. PERSON UNDERTAKING RAM:

1. Check all that apply: ☐ 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 SUITE #220 6. Title: PRESIDENT

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

10. Telephone: 8577707000 11. Ext.: 12. Email: robert.desalvio@encore

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

☐ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: ELIGIBLE OWNER/OPERATOR

☐ 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 RAM Specify Relationship:

H. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if any Remediation Waste, generated as a result of this RAM, will be stored, treated, managed, recycled or reused at the site following submission of the RAM Completion Statement. You must submit a Phase IV Remedy Implementation Plan along with the appropriate transmittal form (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 DEP 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 Board of Health have been notified of the implementation of a Release Abatement Measure.

☐ 4. 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.

☐ 5. If a RAM Compliance Fee is required for this RAM, check here to certify that a RAM Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

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

RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

I. CERTIFICATION OF PERSON UNDERTAKING RAM:

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 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 (Signature)

3. Title: PRESIDENT

4. For: WYNN MA LLC (Name of person or entity recorded in Section F)

5. Date: 2/28/2019 (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
2/28/2019 12:50:16 PM

Appendix B – 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

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 C – Soil Disposal Laboratory Reports

ANALYTICAL REPORT

Lab Number:	L1900350
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Neal Carey
Phone:	(781) 278-5831
Project Name:	WYNN EVERETT
Project Number:	171521.52
Report Date:	01/09/19

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

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1900350-01	BF-6	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 12:00	01/03/19
L1900350-02	BF-5	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 12:30	01/03/19
L1900350-03	BF-4	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 13:00	01/03/19
L1900350-04	BF-3	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 13:30	01/03/19

Project Name: WYNN EVERETT
Lab Number: L1900350
Project Number: 171521.52
Report Date: 01/09/19

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 affirmative 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	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
E b.	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 response 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)?	NO
H	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)?	YES

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: L1900350
Report Date: 01/09/19

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 **Lab Number:** L1900350
Project Number: 171521.52 **Report Date:** 01/09/19

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

The analyses performed were specified by the client.

In reference to question H:

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

Volatile Organics

The initial calibration, associated with L1900350-01 through -04, utilized a quadratic fit for cis-1,3-dichloropropene and styrene.

In reference to question H:

L1900350-01: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (49%) was below the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (44%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

L1900350-02: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (47%) was below the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (49%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

L1900350-03: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (38%) was below the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (38%). The results of both analyses are reported; however, since the IS response was below method criteria (but not <20% of applicable calibration standard area counts), all associated compounds are considered to have a potentially high bias.

The initial calibration, associated with L1900350-01 through -04, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.0741), 4-methyl-2-pentanone (0.0872), and 1,4-dioxane (0.0024), as well as the average response factor for 1,4-dioxane.

Project Name: WYNN EVERETT
Project Number: 171521.52
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Case Narrative (continued)

The continuing calibration standards, associated with L1900350-01 through -04, are outside the acceptance criteria for several compounds; however,they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

Herbicides

L1900350-02: The sample has elevated detection limits due to the dilution required by the sample matrix.

In reference to question G:

L1900350-02: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1900350-02: The surrogate recoveries are below the acceptance criteria for dcaa (0%,0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 01/09/19

ORGANICS

VOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/05/19 14:00
Analyst: AD
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.98	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	0.98	--	1
1,2-Dichloropropane	ND		ug/kg	0.98	--	1
Dibromochloromethane	ND		ug/kg	0.98	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	--	1
Tetrachloroethene	ND		ug/kg	0.49	--	1
Chlorobenzene	ND		ug/kg	0.49	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.98	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	--	1
Bromodichloromethane	ND		ug/kg	0.49	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	--	1
1,1-Dichloropropene	ND		ug/kg	0.49	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Benzene	ND		ug/kg	0.49	--	1
Toluene	ND		ug/kg	0.98	--	1
Ethylbenzene	ND		ug/kg	0.98	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	0.98	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.98	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01 Date Collected: 01/03/19 12:00

Client ID: BF-6 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	ND		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	0.98	--	1
Xylenes, Total	ND		ug/kg	0.98	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	0.98	--	1
Dichlorodifluoromethane	ND		ug/kg	9.8	--	1
Acetone	ND		ug/kg	9.8	--	1
Carbon disulfide	ND		ug/kg	9.8	--	1
Methyl ethyl ketone	ND		ug/kg	9.8	--	1
Methyl isobutyl ketone	ND		ug/kg	9.8	--	1
2-Hexanone	ND		ug/kg	9.8	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	0.98	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	ND		ug/kg	0.98	--	1
sec-Butylbenzene	ND		ug/kg	0.98	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1
Isopropylbenzene	ND		ug/kg	0.98	--	1
p-Isopropyltoluene	ND		ug/kg	0.98	--	1
Naphthalene	ND		ug/kg	3.9	--	1
n-Propylbenzene	ND		ug/kg	0.98	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
Diethyl ether	ND		ug/kg	2.0	--	1
Diisopropyl Ether	ND		ug/kg	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--	1
1,4-Dioxane	ND		ug/kg	98	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	101		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01 R
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/06/19 11:51
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.96	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.96	--	1
1,2-Dichloropropane	ND		ug/kg	0.96	--	1
Dibromochloromethane	ND		ug/kg	0.96	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.96	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.96	--	1
Ethylbenzene	ND		ug/kg	0.96	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.96	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.96	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01 R
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.96	--	1
Xylenes, Total	ND		ug/kg	0.96	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.96	--	1
Dichlorodifluoromethane	ND		ug/kg	9.6	--	1
Acetone	ND		ug/kg	9.6	--	1
Carbon disulfide	ND		ug/kg	9.6	--	1
Methyl ethyl ketone	ND		ug/kg	9.6	--	1
Methyl isobutyl ketone	ND		ug/kg	9.6	--	1
2-Hexanone	ND		ug/kg	9.6	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.96	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.96	--	1
sec-Butylbenzene	ND		ug/kg	0.96	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.96	--	1
p-Isopropyltoluene	ND		ug/kg	0.96	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.96	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01 R
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	96	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/05/19 14:27
Analyst: AD
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	--	1
1,1-Dichloroethane	ND		ug/kg	0.95	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.95	--	1
1,2-Dichloropropane	ND		ug/kg	0.95	--	1
Dibromochloromethane	ND		ug/kg	0.95	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	--	1
Tetrachloroethene	ND		ug/kg	0.48	--	1
Chlorobenzene	ND		ug/kg	0.48	--	1
Trichlorofluoromethane	ND		ug/kg	3.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.95	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	--	1
Bromodichloromethane	ND		ug/kg	0.48	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	--	1
1,1-Dichloropropene	ND		ug/kg	0.48	--	1
Bromoform	ND		ug/kg	3.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Benzene	ND		ug/kg	0.48	--	1
Toluene	ND		ug/kg	0.95	--	1
Ethylbenzene	ND		ug/kg	0.95	--	1
Chloromethane	ND		ug/kg	3.8	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.95	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.95	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 Date Collected: 01/03/19 12:30

Client ID: BF-5 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.95	--	1
Xylenes, Total	ND		ug/kg	0.95	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.95	--	1
Dichlorodifluoromethane	ND		ug/kg	9.5	--	1
Acetone	ND		ug/kg	9.5	--	1
Carbon disulfide	ND		ug/kg	9.5	--	1
Methyl ethyl ketone	ND		ug/kg	9.5	--	1
Methyl isobutyl ketone	ND		ug/kg	9.5	--	1
2-Hexanone	ND		ug/kg	9.5	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.8	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.95	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.95	--	1
sec-Butylbenzene	ND		ug/kg	0.95	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.8	--	1
Isopropylbenzene	ND		ug/kg	0.95	--	1
p-Isopropyltoluene	ND		ug/kg	0.95	--	1
Naphthalene	ND		ug/kg	3.8	--	1
n-Propylbenzene	ND		ug/kg	0.95	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	95	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	105		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 R
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/06/19 12:18
Analyst: JC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.93	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.93	--	1
1,2-Dichloropropane	ND		ug/kg	0.93	--	1
Dibromochloromethane	ND		ug/kg	0.93	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	--	1
Tetrachloroethene	ND		ug/kg	0.47	--	1
Chlorobenzene	ND		ug/kg	0.47	--	1
Trichlorofluoromethane	ND		ug/kg	3.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.93	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	--	1
Bromodichloromethane	ND		ug/kg	0.47	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	--	1
1,1-Dichloropropene	ND		ug/kg	0.47	--	1
Bromoform	ND		ug/kg	3.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	--	1
Benzene	ND		ug/kg	0.47	--	1
Toluene	ND		ug/kg	0.93	--	1
Ethylbenzene	ND		ug/kg	0.93	--	1
Chloromethane	ND		ug/kg	3.7	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.93	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.93	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 R Date Collected: 01/03/19 12:30

Client ID: BF-5 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	ND		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.93	--	1
Xylenes, Total	ND		ug/kg	0.93	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.93	--	1
Dichlorodifluoromethane	ND		ug/kg	9.3	--	1
Acetone	13		ug/kg	9.3	--	1
Carbon disulfide	ND		ug/kg	9.3	--	1
Methyl ethyl ketone	ND		ug/kg	9.3	--	1
Methyl isobutyl ketone	ND		ug/kg	9.3	--	1
2-Hexanone	ND		ug/kg	9.3	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.93	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	ND		ug/kg	0.93	--	1
sec-Butylbenzene	ND		ug/kg	0.93	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	--	1
Hexachlorobutadiene	ND		ug/kg	3.7	--	1
Isopropylbenzene	ND		ug/kg	0.93	--	1
p-Isopropyltoluene	ND		ug/kg	0.93	--	1
Naphthalene	ND		ug/kg	3.7	--	1
n-Propylbenzene	ND		ug/kg	0.93	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 R Date Collected: 01/03/19 12:30

Client ID: BF-5 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	--	1
Diethyl ether	ND		ug/kg	1.9	--	1
Diisopropyl Ether	ND		ug/kg	1.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.9	--	1
1,4-Dioxane	ND		ug/kg	93	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	108		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/05/19 15:23
Analyst: AD
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	4.9	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	--	1
Bromodichloromethane	ND		ug/kg	0.61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	0.61	--	1
Bromoform	ND		ug/kg	4.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.9	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 Date Collected: 01/03/19 13:00

Client ID: BF-4 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	4.9	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.9	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
Diethyl ether	ND		ug/kg	2.4	--	1
Diisopropyl Ether	ND		ug/kg	2.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.4	--	1
1,4-Dioxane	ND		ug/kg	120	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	107		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 R
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/06/19 12:46
Analyst: JC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.6	--	1
Chloroform	ND		ug/kg	2.5	--	1
Carbon tetrachloride	ND		ug/kg	1.6	--	1
1,2-Dichloropropane	ND		ug/kg	1.6	--	1
Dibromochloromethane	ND		ug/kg	1.6	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	--	1
Tetrachloroethene	ND		ug/kg	0.82	--	1
Chlorobenzene	ND		ug/kg	0.82	--	1
Trichlorofluoromethane	ND		ug/kg	6.6	--	1
1,2-Dichloroethane	ND		ug/kg	1.6	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	--	1
Bromodichloromethane	ND		ug/kg	0.82	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.82	--	1
1,1-Dichloropropene	ND		ug/kg	0.82	--	1
Bromoform	ND		ug/kg	6.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	--	1
Benzene	ND		ug/kg	0.82	--	1
Toluene	1.6		ug/kg	1.6	--	1
Ethylbenzene	ND		ug/kg	1.6	--	1
Chloromethane	ND		ug/kg	6.6	--	1
Bromomethane	ND		ug/kg	3.3	--	1
Vinyl chloride	ND		ug/kg	1.6	--	1
Chloroethane	ND		ug/kg	3.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.6	--	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 R Date Collected: 01/03/19 13:00

Client ID: BF-4 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.82	--	1
1,2-Dichlorobenzene	ND		ug/kg	3.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	3.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	3.3	--	1
Methyl tert butyl ether	ND		ug/kg	3.3	--	1
p/m-Xylene	ND		ug/kg	3.3	--	1
o-Xylene	ND		ug/kg	1.6	--	1
Xylenes, Total	ND		ug/kg	1.6	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	--	1
Dibromomethane	ND		ug/kg	3.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	3.3	--	1
Styrene	ND		ug/kg	1.6	--	1
Dichlorodifluoromethane	ND		ug/kg	16	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	16	--	1
Methyl ethyl ketone	ND		ug/kg	16	--	1
Methyl isobutyl ketone	ND		ug/kg	16	--	1
2-Hexanone	ND		ug/kg	16	--	1
Bromochloromethane	ND		ug/kg	3.3	--	1
Tetrahydrofuran	ND		ug/kg	6.6	--	1
2,2-Dichloropropane	ND		ug/kg	3.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.6	--	1
1,3-Dichloropropane	ND		ug/kg	3.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.82	--	1
Bromobenzene	ND		ug/kg	3.3	--	1
n-Butylbenzene	ND		ug/kg	1.6	--	1
sec-Butylbenzene	ND		ug/kg	1.6	--	1
tert-Butylbenzene	ND		ug/kg	3.3	--	1
o-Chlorotoluene	ND		ug/kg	3.3	--	1
p-Chlorotoluene	ND		ug/kg	3.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	--	1
Hexachlorobutadiene	ND		ug/kg	6.6	--	1
Isopropylbenzene	ND		ug/kg	1.6	--	1
p-Isopropyltoluene	ND		ug/kg	1.6	--	1
Naphthalene	ND		ug/kg	6.6	--	1
n-Propylbenzene	ND		ug/kg	1.6	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 R Date Collected: 01/03/19 13:00

Client ID: BF-4 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	3.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.3	--	1
Diethyl ether	ND		ug/kg	3.3	--	1
Diisopropyl Ether	ND		ug/kg	3.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.3	--	1
1,4-Dioxane	ND		ug/kg	160	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	107		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/05/19 14:55
Analyst: AD
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	--	1
1,1-Dichloroethane	ND		ug/kg	0.82	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.82	--	1
1,2-Dichloropropane	ND		ug/kg	0.82	--	1
Dibromochloromethane	ND		ug/kg	0.82	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.82	--	1
Tetrachloroethene	ND		ug/kg	0.41	--	1
Chlorobenzene	ND		ug/kg	0.41	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.82	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	--	1
Bromodichloromethane	ND		ug/kg	0.41	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.41	--	1
1,1-Dichloropropene	ND		ug/kg	0.41	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	--	1
Benzene	ND		ug/kg	0.41	--	1
Toluene	ND		ug/kg	0.82	--	1
Ethylbenzene	ND		ug/kg	0.82	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.82	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.82	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04 Date Collected: 01/03/19 13:30

Client ID: BF-3 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.41	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.82	--	1
Xylenes, Total	ND		ug/kg	0.82	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.82	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.82	--	1
Dichlorodifluoromethane	ND		ug/kg	8.2	--	1
Acetone	ND		ug/kg	8.2	--	1
Carbon disulfide	ND		ug/kg	8.2	--	1
Methyl ethyl ketone	ND		ug/kg	8.2	--	1
Methyl isobutyl ketone	ND		ug/kg	8.2	--	1
2-Hexanone	ND		ug/kg	8.2	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.82	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.41	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.82	--	1
sec-Butylbenzene	ND		ug/kg	0.82	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.3	--	1
Isopropylbenzene	ND		ug/kg	0.82	--	1
p-Isopropyltoluene	ND		ug/kg	0.82	--	1
Naphthalene	ND		ug/kg	3.3	--	1
n-Propylbenzene	ND		ug/kg	0.82	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	82	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	104		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/06/19 11:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1195227-10					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/06/19 11:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1195227-10					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/06/19 11:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1195227-10					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	100	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	10	--
Ethyl Acetate	ND		ug/kg	10	--
Freon-113	ND		ug/kg	4.0	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/06/19 11:23
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1195227-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/05/19 13:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1195227-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/05/19 13:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1195227-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/05/19 13:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1195227-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	100	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	10	--
Ethyl Acetate	ND		ug/kg	10	--
Freon-113	ND		ug/kg	4.0	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/05/19 13:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1195227-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1195227-3 WG1195227-4								
Methylene chloride	88		94		70-130	7		20
1,1-Dichloroethane	102		103		70-130	1		20
Chloroform	102		103		70-130	1		20
Carbon tetrachloride	102		105		70-130	3		20
1,2-Dichloropropane	100		102		70-130	2		20
Dibromochloromethane	99		104		70-130	5		20
1,1,2-Trichloroethane	105		109		70-130	4		20
Tetrachloroethene	112		113		70-130	1		20
Chlorobenzene	106		107		70-130	1		20
Trichlorofluoromethane	102		104		70-130	2		20
1,2-Dichloroethane	101		101		70-130	0		20
1,1,1-Trichloroethane	108		108		70-130	0		20
Bromodichloromethane	100		99		70-130	1		20
trans-1,3-Dichloropropene	100		103		70-130	3		20
cis-1,3-Dichloropropene	97		94		70-130	3		20
1,1-Dichloropropene	118		117		70-130	1		20
Bromoform	98		104		70-130	6		20
1,1,2,2-Tetrachloroethane	99		100		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	110		105		70-130	5		20
Ethylbenzene	112		117		70-130	4		20
Chloromethane	97		96		70-130	1		20
Bromomethane	81		86		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1195227-3 WG1195227-4								
Vinyl chloride	100		100		70-130	0		20
Chloroethane	92		91		70-130	1		20
1,1-Dichloroethene	92		91		70-130	1		20
trans-1,2-Dichloroethene	94		100		70-130	6		20
Trichloroethene	104		104		70-130	0		20
1,2-Dichlorobenzene	105		108		70-130	3		20
1,3-Dichlorobenzene	112		109		70-130	3		20
1,4-Dichlorobenzene	108		107		70-130	1		20
Methyl tert butyl ether	96		104		70-130	8		20
p/m-Xylene	115		116		70-130	1		20
o-Xylene	116		117		70-130	1		20
cis-1,2-Dichloroethene	101		102		70-130	1		20
Dibromomethane	99		102		70-130	3		20
1,4-Dichlorobutane	108		103		70-130	5		20
1,2,3-Trichloropropane	102		101		70-130	1		20
Styrene	100		107		70-130	7		20
Dichlorodifluoromethane	**65**	Q	**64**	Q	70-130	2		20
Acetone	110		112		70-130	2		20
Carbon disulfide	88		90		70-130	2		20
Methyl ethyl ketone	115		114		70-130	1		20
Methyl isobutyl ketone	97		99		70-130	2		20
2-Hexanone	100		104		70-130	4		20
Ethyl methacrylate	94		98		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1195227-3 WG1195227-4								
Acrylonitrile	96		95		70-130	1		20
Bromochloromethane	99		100		70-130	1		20
Tetrahydrofuran	106		103		70-130	3		20
2,2-Dichloropropane	110		110		70-130	0		20
1,2-Dibromoethane	104		104		70-130	0		20
1,3-Dichloropropane	108		110		70-130	2		20
1,1,1,2-Tetrachloroethane	104		112		70-130	7		20
Bromobenzene	104		102		70-130	2		20
n-Butylbenzene	115		120		70-130	4		20
sec-Butylbenzene	112		118		70-130	5		20
tert-Butylbenzene	111		121		70-130	9		20
o-Chlorotoluene	110		108		70-130	2		20
p-Chlorotoluene	115		113		70-130	2		20
1,2-Dibromo-3-chloropropane	99		99		70-130	0		20
Hexachlorobutadiene	113		118		70-130	4		20
Isopropylbenzene	114		112		70-130	2		20
p-Isopropyltoluene	120		123		70-130	2		20
Naphthalene	103		106		70-130	3		20
n-Propylbenzene	116		112		70-130	4		20
1,2,3-Trichlorobenzene	101		106		70-130	5		20
1,2,4-Trichlorobenzene	113		117		70-130	3		20
1,3,5-Trimethylbenzene	116		115		70-130	1		20
1,2,4-Trimethylbenzene	115		122		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1195227-3 WG1195227-4								
trans-1,4-Dichloro-2-butene	106		94		70-130	12		20
Diethyl ether	88		91		70-130	3		20
Diisopropyl Ether	103		104		70-130	1		20
Ethyl-Tert-Butyl-Ether	107		108		70-130	1		20
Tertiary-Amyl Methyl Ether	103		104		70-130	1		20
1,4-Dioxane	87		89		70-130	2		20
2-Chloroethylvinyl ether	108		111		70-130	3		20
Halothane	102		104		70-130	2		20
Ethyl Acetate	99		97		70-130	2		20
Freon-113	104		106		70-130	2		20
Vinyl acetate	119		120		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	103		104		70-130
4-Bromofluorobenzene	102		97		70-130
Dibromofluoromethane	96		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1195227-8 WG1195227-9								
Methylene chloride	91		92		70-130	1		20
1,1-Dichloroethane	103		101		70-130	2		20
Chloroform	103		100		70-130	3		20
Carbon tetrachloride	101		98		70-130	3		20
1,2-Dichloropropane	102		102		70-130	0		20
Dibromochloromethane	104		104		70-130	0		20
1,1,2-Trichloroethane	108		110		70-130	2		20
Tetrachloroethene	106		107		70-130	1		20
Chlorobenzene	107		105		70-130	2		20
Trichlorofluoromethane	98		104		70-130	6		20
1,2-Dichloroethane	103		99		70-130	4		20
1,1,1-Trichloroethane	106		101		70-130	5		20
Bromodichloromethane	104		102		70-130	2		20
trans-1,3-Dichloropropene	101		103		70-130	2		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
1,1-Dichloropropene	113		110		70-130	3		20
Bromoform	107		106		70-130	1		20
1,1,2,2-Tetrachloroethane	103		107		70-130	4		20
Benzene	105		101		70-130	4		20
Toluene	108		107		70-130	1		20
Ethylbenzene	112		111		70-130	1		20
Chloromethane	93		93		70-130	0		20
Bromomethane	88		98		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab	Associated sample(s): 01-03		Batch: WG1195227-8 WG1195227-9					
Vinyl chloride	97		96		70-130	1		20
Chloroethane	102		106		70-130	4		20
1,1-Dichloroethene	87		86		70-130	1		20
trans-1,2-Dichloroethene	92		94		70-130	2		20
Trichloroethene	105		102		70-130	3		20
1,2-Dichlorobenzene	106		106		70-130	0		20
1,3-Dichlorobenzene	108		107		70-130	1		20
1,4-Dichlorobenzene	104		104		70-130	0		20
Methyl tert butyl ether	96		98		70-130	2		20
p/m-Xylene	108		113		70-130	5		20
o-Xylene	112		114		70-130	2		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	103		102		70-130	1		20
1,4-Dichlorobutane	108		112		70-130	4		20
1,2,3-Trichloropropane	104		108		70-130	4		20
Styrene	103		102		70-130	1		20
Dichlorodifluoromethane	**55**	Q	**56**	Q	70-130	2		20
Acetone	111		118		70-130	6		20
Carbon disulfide	87		88		70-130	1		20
Methyl ethyl ketone	105		101		70-130	4		20
Methyl isobutyl ketone	99		101		70-130	2		20
2-Hexanone	103		103		70-130	0		20
Ethyl methacrylate	96		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1195227-8 WG1195227-9								
Acrylonitrile	103		100		70-130	3		20
Bromochloromethane	102		96		70-130	6		20
Tetrahydrofuran	108		107		70-130	1		20
2,2-Dichloropropane	107		103		70-130	4		20
1,2-Dibromoethane	108		108		70-130	0		20
1,3-Dichloropropane	109		109		70-130	0		20
1,1,1,2-Tetrachloroethane	106		108		70-130	2		20
Bromobenzene	106		105		70-130	1		20
n-Butylbenzene	114		114		70-130	0		20
sec-Butylbenzene	110		108		70-130	2		20
tert-Butylbenzene	116		113		70-130	3		20
o-Chlorotoluene	105		108		70-130	3		20
p-Chlorotoluene	111		113		70-130	2		20
1,2-Dibromo-3-chloropropane	104		105		70-130	1		20
Hexachlorobutadiene	97		102		70-130	5		20
Isopropylbenzene	116		114		70-130	2		20
p-Isopropyltoluene	115		115		70-130	0		20
Naphthalene	102		107		70-130	5		20
n-Propylbenzene	109		114		70-130	4		20
1,2,3-Trichlorobenzene	106		108		70-130	2		20
1,2,4-Trichlorobenzene	105		109		70-130	4		20
1,3,5-Trimethylbenzene	112		114		70-130	2		20
1,2,4-Trimethylbenzene	121		117		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1195227-8 WG1195227-9								
trans-1,4-Dichloro-2-butene	105		101		70-130	4		20
Diethyl ether	98		94		70-130	4		20
Diisopropyl Ether	101		102		70-130	1		20
Ethyl-Tert-Butyl-Ether	105		103		70-130	2		20
Tertiary-Amyl Methyl Ether	106		102		70-130	4		20
1,4-Dioxane	111		110		70-130	1		20
2-Chloroethylvinyl ether	110		112		70-130	2		20
Halothane	101		96		70-130	5		20
Ethyl Acetate	106		103		70-130	3		20
Freon-113	94		96		70-130	2		20
Vinyl acetate	123		119		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	101		98		70-130

SEMIVOLATILES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/08/19 15:23
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	--	1
2,4-Dinitrotoluene	ND		ug/kg	180	--	1
2,6-Dinitrotoluene	ND		ug/kg	180	--	1
Azobenzene	ND		ug/kg	180	--	1
Fluoranthene	950		ug/kg	110	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Hexachloroethane	ND		ug/kg	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	ND		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	770		ug/kg	110	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01 Date Collected: 01/03/19 12:00

Client ID: BF-6 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	560		ug/kg	140	--	1
Benzo(b)fluoranthene	1100		ug/kg	110	--	1
Benzo(k)fluoranthene	420		ug/kg	110	--	1
Chrysene	840		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	140		ug/kg	110	--	1
Benzo(ghi)perylene	310		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	360		ug/kg	110	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	400		ug/kg	140	--	1
Pyrene	1000		ug/kg	110	--	1
Aniline	ND		ug/kg	220	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1
Acetophenone	ND		ug/kg	180	--	1
2,4,6-Trichlorophenol	ND		ug/kg	110	--	1
2-Chlorophenol	ND		ug/kg	180	--	1
2,4-Dichlorophenol	ND		ug/kg	160	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	390	--	1
4-Nitrophenol	ND		ug/kg	250	--	1
2,4-Dinitrophenol	ND		ug/kg	860	--	1
Pentachlorophenol	ND		ug/kg	360	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Pyridine	ND		ug/kg	190	--	1

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		30-130
Phenol-d6	90		30-130
Nitrobenzene-d5	85		30-130
2-Fluorobiphenyl	112		30-130
2,4,6-Tribromophenol	116		30-130
4-Terphenyl-d14	108		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/04/19 21:34
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	160	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	--	1
2-Chloronaphthalene	ND		ug/kg	200	--	1
1,2-Dichlorobenzene	ND		ug/kg	200	--	1
1,3-Dichlorobenzene	ND		ug/kg	200	--	1
1,4-Dichlorobenzene	ND		ug/kg	200	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	--	1
2,4-Dinitrotoluene	ND		ug/kg	200	--	1
2,6-Dinitrotoluene	ND		ug/kg	200	--	1
Azobenzene	ND		ug/kg	200	--	1
Fluoranthene	910		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	240		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	--	1
Butyl benzyl phthalate	ND		ug/kg	200	--	1
Di-n-butylphthalate	ND		ug/kg	200	--	1
Di-n-octylphthalate	ND		ug/kg	200	--	1
Diethyl phthalate	ND		ug/kg	200	--	1
Dimethyl phthalate	ND		ug/kg	200	--	1
Benzo(a)anthracene	570		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 Date Collected: 01/03/19 12:30

Client ID: BF-5 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	520		ug/kg	160	--	1
Benzo(b)fluoranthene	910		ug/kg	120	--	1
Benzo(k)fluoranthene	290		ug/kg	120	--	1
Chrysene	670		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	150		ug/kg	120	--	1
Benzo(ghi)perylene	430		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	570		ug/kg	120	--	1
Dibenzo(a,h)anthracene	120		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	470		ug/kg	160	--	1
Pyrene	830		ug/kg	120	--	1
Aniline	ND		ug/kg	240	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	ND		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	240	--	1
Acetophenone	ND		ug/kg	200	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	200	--	1
2,4-Dichlorophenol	ND		ug/kg	180	--	1
2,4-Dimethylphenol	ND		ug/kg	200	--	1
2-Nitrophenol	ND		ug/kg	430	--	1
4-Nitrophenol	ND		ug/kg	280	--	1
2,4-Dinitrophenol	ND		ug/kg	960	--	1
Pentachlorophenol	ND		ug/kg	400	--	1
Phenol	ND		ug/kg	200	--	1
2-Methylphenol	ND		ug/kg	200	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	220	--	1

Project Name: WYNN EVERETT
Lab Number: L1900350
Project Number: 171521.52
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		30-130
Phenol-d6	77		30-130
Nitrobenzene-d5	79		30-130
2-Fluorobiphenyl	95		30-130
2,4,6-Tribromophenol	91		30-130
4-Terphenyl-d14	96		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/09/19 09:40
Analyst: ALS
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 01/09/19 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	180	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	--	1
Hexachlorobenzene	ND		ug/kg	140	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	--	1
2-Chloronaphthalene	ND		ug/kg	230	--	1
1,2-Dichlorobenzene	ND		ug/kg	230	--	1
1,3-Dichlorobenzene	ND		ug/kg	230	--	1
1,4-Dichlorobenzene	ND		ug/kg	230	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	--	1
2,4-Dinitrotoluene	ND		ug/kg	230	--	1
2,6-Dinitrotoluene	ND		ug/kg	230	--	1
Azobenzene	ND		ug/kg	230	--	1
Fluoranthene	150		ug/kg	140	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	--	1
Hexachlorobutadiene	ND		ug/kg	230	--	1
Hexachloroethane	ND		ug/kg	180	--	1
Isophorone	ND		ug/kg	200	--	1
Naphthalene	ND		ug/kg	230	--	1
Nitrobenzene	ND		ug/kg	200	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	--	1
Butyl benzyl phthalate	ND		ug/kg	230	--	1
Di-n-butylphthalate	ND		ug/kg	230	--	1
Di-n-octylphthalate	ND		ug/kg	230	--	1
Diethyl phthalate	ND		ug/kg	230	--	1
Dimethyl phthalate	ND		ug/kg	230	--	1
Benzo(a)anthracene	ND		ug/kg	140	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 Date Collected: 01/03/19 13:00

Client ID: BF-4 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	180	--	1
Benzo(b)fluoranthene	ND		ug/kg	140	--	1
Benzo(k)fluoranthene	ND		ug/kg	140	--	1
Chrysene	ND		ug/kg	140	--	1
Acenaphthylene	ND		ug/kg	180	--	1
Anthracene	ND		ug/kg	140	--	1
Benzo(ghi)perylene	ND		ug/kg	180	--	1
Fluorene	ND		ug/kg	230	--	1
Phenanthrene	ND		ug/kg	140	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	--	1
Pyrene	ND		ug/kg	140	--	1
Aniline	ND		ug/kg	270	--	1
4-Chloroaniline	ND		ug/kg	230	--	1
Dibenzofuran	ND		ug/kg	230	--	1
2-Methylnaphthalene	ND		ug/kg	270	--	1
Acetophenone	ND		ug/kg	230	--	1
2,4,6-Trichlorophenol	ND		ug/kg	140	--	1
2-Chlorophenol	ND		ug/kg	230	--	1
2,4-Dichlorophenol	ND		ug/kg	200	--	1
2,4-Dimethylphenol	ND		ug/kg	230	--	1
2-Nitrophenol	ND		ug/kg	490	--	1
4-Nitrophenol	ND		ug/kg	320	--	1
2,4-Dinitrophenol	ND		ug/kg	1100	--	1
Pentachlorophenol	ND		ug/kg	450	--	1
Phenol	ND		ug/kg	230	--	1
2-Methylphenol	ND		ug/kg	230	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	330	--	1
2,4,5-Trichlorophenol	ND		ug/kg	230	--	1
Pyridine	ND		ug/kg	240	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03 Date Collected: 01/03/19 13:00

Client ID: BF-4 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		30-130
Phenol-d6	43		30-130
Nitrobenzene-d5	50		30-130
2-Fluorobiphenyl	51		30-130
2,4,6-Tribromophenol	51		30-130
4-Terphenyl-d14	43		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/04/19 20:43
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	--	1
2-Chloronaphthalene	ND		ug/kg	190	--	1
1,2-Dichlorobenzene	ND		ug/kg	190	--	1
1,3-Dichlorobenzene	ND		ug/kg	190	--	1
1,4-Dichlorobenzene	ND		ug/kg	190	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	--	1
2,4-Dinitrotoluene	ND		ug/kg	190	--	1
2,6-Dinitrotoluene	ND		ug/kg	190	--	1
Azobenzene	ND		ug/kg	190	--	1
Fluoranthene	1100		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	190	--	1
Hexachloroethane	ND		ug/kg	150	--	1
Isophorone	ND		ug/kg	170	--	1
Naphthalene	260		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	--	1
Butyl benzyl phthalate	ND		ug/kg	190	--	1
Di-n-butylphthalate	ND		ug/kg	190	--	1
Di-n-octylphthalate	ND		ug/kg	190	--	1
Diethyl phthalate	ND		ug/kg	190	--	1
Dimethyl phthalate	ND		ug/kg	190	--	1
Benzo(a)anthracene	630		ug/kg	120	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04 Date Collected: 01/03/19 13:30

Client ID: BF-3 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	500		ug/kg	150	--	1
Benzo(b)fluoranthene	1100		ug/kg	120	--	1
Benzo(k)fluoranthene	360		ug/kg	120	--	1
Chrysene	740		ug/kg	120	--	1
Acenaphthylene	150		ug/kg	150	--	1
Anthracene	190		ug/kg	120	--	1
Benzo(ghi)perylene	330		ug/kg	150	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	550		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	150	--	1
Pyrene	930		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	ND		ug/kg	190	--	1
2-Methylnaphthalene	ND		ug/kg	230	--	1
Acetophenone	ND		ug/kg	190	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	190	--	1
2,4-Dichlorophenol	ND		ug/kg	170	--	1
2,4-Dimethylphenol	ND		ug/kg	190	--	1
2-Nitrophenol	ND		ug/kg	420	--	1
4-Nitrophenol	ND		ug/kg	270	--	1
2,4-Dinitrophenol	ND		ug/kg	920	--	1
Pentachlorophenol	ND		ug/kg	380	--	1
Phenol	ND		ug/kg	190	--	1
2-Methylphenol	ND		ug/kg	190	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	190	--	1
Pyridine	ND		ug/kg	210	--	1

Project Name: WYNN EVERETT **Lab Number:** L1900350

Project Number: 171521.52 **Report Date:** 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04 Date Collected: 01/03/19 13:30

Client ID: BF-3 Date Received: 01/03/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	101		30-130
Phenol-d6	100		30-130
Nitrobenzene-d5	95		30-130
2-Fluorobiphenyl	113		30-130
2,4,6-Tribromophenol	111		30-130
4-Terphenyl-d14	107		30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/04/19 12:39
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1194579-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	98	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	98	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	98	--
Benzo(a)pyrene	ND		ug/kg	130	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/04/19 12:39
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1194579-1					
Benzo(b)fluoranthene	ND		ug/kg	98	--
Benzo(k)fluoranthene	ND		ug/kg	98	--
Chrysene	ND		ug/kg	98	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	98	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	98	--
Dibenzo(a,h)anthracene	ND		ug/kg	98	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	98	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	98	--
2-Chlorophenol	ND		ug/kg	160	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	350	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	790	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/04/19 12:39
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 01/03/19 20:04

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02,04 Batch: WG1194579-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**164**	Q	30-130
Phenol-d6	**168**	Q	30-130
Nitrobenzene-d5	**159**	Q	30-130
2-Fluorobiphenyl	**176**	Q	30-130
2,4,6-Tribromophenol	**154**	Q	30-130
4-Terphenyl-d14	**172**	Q	30-130

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/09/19 12:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/08/19 03:27

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1195562-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	170	--
Hexachlorobenzene	ND		ug/kg	100	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	170	--
1,2-Dichlorobenzene	ND		ug/kg	170	--
1,3-Dichlorobenzene	ND		ug/kg	170	--
1,4-Dichlorobenzene	ND		ug/kg	170	--
3,3'-Dichlorobenzidine	ND		ug/kg	170	--
2,4-Dinitrotoluene	ND		ug/kg	170	--
2,6-Dinitrotoluene	ND		ug/kg	170	--
Azobenzene	ND		ug/kg	170	--
Fluoranthene	ND		ug/kg	100	--
4-Bromophenyl phenyl ether	ND		ug/kg	170	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	170	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	170	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	--
Butyl benzyl phthalate	ND		ug/kg	170	--
Di-n-butylphthalate	ND		ug/kg	170	--
Di-n-octylphthalate	ND		ug/kg	170	--
Diethyl phthalate	ND		ug/kg	170	--
Dimethyl phthalate	ND		ug/kg	170	--
Benzo(a)anthracene	ND		ug/kg	100	--
Benzo(a)pyrene	ND		ug/kg	130	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/09/19 12:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/08/19 03:27

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1195562-1					
Benzo(b)fluoranthene	ND		ug/kg	100	--
Benzo(k)fluoranthene	ND		ug/kg	100	--
Chrysene	ND		ug/kg	100	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	100	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	170	--
Phenanthrene	ND		ug/kg	100	--
Dibenzo(a,h)anthracene	ND		ug/kg	100	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	100	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	170	--
Dibenzofuran	ND		ug/kg	170	--
2-Methylnaphthalene	ND		ug/kg	200	--
Acetophenone	ND		ug/kg	170	--
2,4,6-Trichlorophenol	ND		ug/kg	100	--
2-Chlorophenol	ND		ug/kg	170	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	170	--
2-Nitrophenol	ND		ug/kg	360	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	800	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	170	--
2-Methylphenol	ND		ug/kg	170	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	170	--
Pyridine	ND		ug/kg	180	--

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/09/19 12:10
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/08/19 03:27

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 03 Batch: WG1195562-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		30-130
Phenol-d6	97		30-130
Nitrobenzene-d5	101		30-130
2-Fluorobiphenyl	98		30-130
2,4,6-Tribromophenol	86		30-130
4-Terphenyl-d14	103		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1194579-2 WG1194579-3								
Acenaphthene	96		104		40-140	8		30
1,2,4-Trichlorobenzene	88		111		40-140	23		30
Hexachlorobenzene	96		105		40-140	9		30
Bis(2-chloroethyl)ether	75		98		40-140	27		30
2-Chloronaphthalene	106		120		40-140	12		30
1,2-Dichlorobenzene	76		100		40-140	27		30
1,3-Dichlorobenzene	77		98		40-140	24		30
1,4-Dichlorobenzene	76		100		40-140	27		30
3,3'-Dichlorobenzidine	73		83		40-140	13		30
2,4-Dinitrotoluene	111		120		40-140	8		30
2,6-Dinitrotoluene	122		134		40-140	9		30
Azobenzene	92		100		40-140	8		30
Fluoranthene	115		123		40-140	7		30
4-Bromophenyl phenyl ether	104		116		40-140	11		30
Bis(2-chloroisopropyl)ether	85		110		40-140	26		30
Bis(2-chloroethoxy)methane	90		106		40-140	16		30
Hexachlorobutadiene	86		109		40-140	24		30
Hexachloroethane	73		95		40-140	26		30
Isophorone	92		107		40-140	15		30
Naphthalene	89		109		40-140	20		30
Nitrobenzene	86		107		40-140	22		30
Bis(2-ethylhexyl)phthalate	124		134		40-140	8		30
Butyl benzyl phthalate	121		129		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1194579-2 WG1194579-3								
Di-n-butylphthalate	113		123		40-140	8		30
Di-n-octylphthalate	130		140		40-140	7		30
Diethyl phthalate	106		115		40-140	8		30
Dimethyl phthalate	115		128		40-140	11		30
Benzo(a)anthracene	107		115		40-140	7		30
Benzo(a)pyrene	115		126		40-140	9		30
Benzo(b)fluoranthene	117		130		40-140	11		30
Benzo(k)fluoranthene	109		117		40-140	7		30
Chrysene	111		118		40-140	6		30
Acenaphthylene	107		120		40-140	11		30
Anthracene	108		116		40-140	7		30
Benzo(ghi)perylene	106		114		40-140	7		30
Fluorene	101		109		40-140	8		30
Phenanthrene	104		111		40-140	7		30
Dibenzo(a,h)anthracene	111		119		40-140	7		30
Indeno(1,2,3-cd)pyrene	114		122		40-140	7		30
Pyrene	112		121		40-140	8		30
Aniline	63		81		40-140	25		30
4-Chloroaniline	68		79		40-140	15		30
Dibenzofuran	98		106		40-140	8		30
2-Methylnaphthalene	97		109		40-140	12		30
Acetophenone	94		114		40-140	19		30
2,4,6-Trichlorophenol	123		**135**	Q	30-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02,04 Batch: WG1194579-2 WG1194579-3								
2-Chlorophenol	92		114		30-130	21		30
2,4-Dichlorophenol	110		125		30-130	13		30
2,4-Dimethylphenol	116		**135**	Q	30-130	15		30
2-Nitrophenol	102		129		30-130	23		30
4-Nitrophenol	106		116		30-130	9		30
2,4-Dinitrophenol	113		125		30-130	10		30
Pentachlorophenol	100		110		30-130	10		30
Phenol	97		118		30-130	20		30
2-Methylphenol	95		114		30-130	18		30
3-Methylphenol/4-Methylphenol	100		115		30-130	14		30
2,4,5-Trichlorophenol	122		**138**	Q	30-130	12		30
Pyridine	45		52		30-130	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		113		30-130
Phenol-d6	91		110		30-130
Nitrobenzene-d5	84		107		30-130
2-Fluorobiphenyl	102		118		30-130
2,4,6-Tribromophenol	95		107		30-130
4-Terphenyl-d14	99		110		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1195562-2 WG1195562-3								
Acenaphthene	94		83		40-140	12		30
1,2,4-Trichlorobenzene	87		88		40-140	1		30
Hexachlorobenzene	99		89		40-140	11		30
Bis(2-chloroethyl)ether	83		79		40-140	5		30
2-Chloronaphthalene	93		95		40-140	2		30
1,2-Dichlorobenzene	82		93		40-140	13		30
1,3-Dichlorobenzene	81		89		40-140	9		30
1,4-Dichlorobenzene	82		88		40-140	7		30
3,3'-Dichlorobenzidine	77		70		40-140	10		30
2,4-Dinitrotoluene	125		108		40-140	15		30
2,6-Dinitrotoluene	115		120		40-140	4		30
Azobenzene	94		87		40-140	8		30
Fluoranthene	99		88		40-140	12		30
4-Bromophenyl phenyl ether	96		92		40-140	4		30
Bis(2-chloroisopropyl)ether	74		76		40-140	3		30
Bis(2-chloroethoxy)methane	91		84		40-140	8		30
Hexachlorobutadiene	77		87		40-140	12		30
Hexachloroethane	90		90		40-140	0		30
Isophorone	90		82		40-140	9		30
Naphthalene	87		91		40-140	4		30
Nitrobenzene	97		91		40-140	6		30
Bis(2-ethylhexyl)phthalate	113		107		40-140	5		30
Butyl benzyl phthalate	120		99		40-140	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1195562-2 WG1195562-3								
Di-n-butylphthalate	104		104		40-140	0		30
Di-n-octylphthalate	118		125		40-140	6		30
Diethyl phthalate	99		90		40-140	10		30
Dimethyl phthalate	99		102		40-140	3		30
Benzo(a)anthracene	92		86		40-140	7		30
Benzo(a)pyrene	103		114		40-140	10		30
Benzo(b)fluoranthene	110		115		40-140	4		30
Benzo(k)fluoranthene	102		108		40-140	6		30
Chrysene	93		92		40-140	1		30
Acenaphthylene	101		107		40-140	6		30
Anthracene	108		93		40-140	15		30
Benzo(ghi)perylene	95		90		40-140	5		30
Fluorene	96		94		40-140	2		30
Phenanthrene	97		86		40-140	12		30
Dibenzo(a,h)anthracene	90		87		40-140	3		30
Indeno(1,2,3-cd)pyrene	94		89		40-140	5		30
Pyrene	100		88		40-140	13		30
Aniline	51		44		40-140	15		30
4-Chloroaniline	81		82		40-140	1		30
Dibenzofuran	104		91		40-140	13		30
2-Methylnaphthalene	92		88		40-140	4		30
Acetophenone	91		89		40-140	2		30
2,4,6-Trichlorophenol	104		100		30-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 03 Batch: WG1195562-2 WG1195562-3								
2-Chlorophenol	97		94		30-130	3		30
2,4-Dichlorophenol	104		98		30-130	6		30
2,4-Dimethylphenol	102		103		30-130	1		30
2-Nitrophenol	110		102		30-130	8		30
4-Nitrophenol	104		96		30-130	8		30
2,4-Dinitrophenol	60		57		30-130	5		30
Pentachlorophenol	88		92		30-130	4		30
Phenol	95		87		30-130	9		30
2-Methylphenol	101		98		30-130	3		30
3-Methylphenol/4-Methylphenol	113		97		30-130	15		30
2,4,5-Trichlorophenol	95		93		30-130	2		30
Pyridine	**21**	Q	**27**	Q	30-130	25		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	106		106		30-130
Phenol-d6	102		94		30-130
Nitrobenzene-d5	104		100		30-130
2-Fluorobiphenyl	97		96		30-130
2,4,6-Tribromophenol	99		91		30-130
4-Terphenyl-d14	101		79		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/05/19 19:52
Analyst: DG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	36200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/05/19 20:24
Analyst: DG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	362000		ug/kg	40400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	103		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/05/19 20:57
Analyst: DG
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 00:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	90200		ug/kg	44100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/05/19 21:30
Analyst: DG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 00:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	183000		ug/kg	38600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	100		40-140

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 01/04/19 11:38
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 01/04/19 00:09

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-04 Batch: WG1194621-1					
TPH	ND		ug/kg	32600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-04 Batch: WG1194621-2								
TPH	102		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	90				40-140

PCBS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/04/19 16:02
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	--	1	A
Aroclor 1221	ND		ug/kg	35.2	--	1	A
Aroclor 1232	ND		ug/kg	35.2	--	1	A
Aroclor 1242	ND		ug/kg	35.2	--	1	A
Aroclor 1248	ND		ug/kg	35.2	--	1	A
Aroclor 1254	ND		ug/kg	35.2	--	1	A
Aroclor 1260	ND		ug/kg	35.2	--	1	A
Aroclor 1262	ND		ug/kg	35.2	--	1	A
Aroclor 1268	ND		ug/kg	35.2	--	1	A
PCBs, Total	ND		ug/kg	35.2	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	42		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/04/19 16:14
Analyst: WR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.3	--	1	A
Aroclor 1221	ND		ug/kg	40.3	--	1	A
Aroclor 1232	ND		ug/kg	40.3	--	1	A
Aroclor 1242	ND		ug/kg	40.3	--	1	A
Aroclor 1248	ND		ug/kg	40.3	--	1	A
Aroclor 1254	ND		ug/kg	40.3	--	1	A
Aroclor 1260	74.3		ug/kg	40.3	--	1	A
Aroclor 1262	ND		ug/kg	40.3	--	1	A
Aroclor 1268	ND		ug/kg	40.3	--	1	A
PCBs, Total	74.3		ug/kg	40.3	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	46		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/04/19 16:27
Analyst: WR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.5	--	1	A
Aroclor 1221	ND		ug/kg	44.5	--	1	A
Aroclor 1232	ND		ug/kg	44.5	--	1	A
Aroclor 1242	ND		ug/kg	44.5	--	1	A
Aroclor 1248	ND		ug/kg	44.5	--	1	A
Aroclor 1254	ND		ug/kg	44.5	--	1	A
Aroclor 1260	ND		ug/kg	44.5	--	1	A
Aroclor 1262	ND		ug/kg	44.5	--	1	A
Aroclor 1268	ND		ug/kg	44.5	--	1	A
PCBs, Total	ND		ug/kg	44.5	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	**27**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	41		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/04/19 16:39
Analyst: WR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/03/19 21:53
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	--	1	A
Aroclor 1221	ND		ug/kg	37.1	--	1	A
Aroclor 1232	ND		ug/kg	37.1	--	1	A
Aroclor 1242	ND		ug/kg	37.1	--	1	A
Aroclor 1248	ND		ug/kg	37.1	--	1	A
Aroclor 1254	ND		ug/kg	37.1	--	1	A
Aroclor 1260	ND		ug/kg	37.1	--	1	A
Aroclor 1262	ND		ug/kg	37.1	--	1	A
Aroclor 1268	ND		ug/kg	37.1	--	1	A
PCBs, Total	ND		ug/kg	37.1	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	35		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 01/04/19 17:04
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 01/03/19 21:52
Cleanup Method: EPA 3665A
Cleanup Date: 01/04/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/04/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-04 Batch: WG1194595-1						
Aroclor 1016	ND		ug/kg	31.7	--	A
Aroclor 1221	ND		ug/kg	31.7	--	A
Aroclor 1232	ND		ug/kg	31.7	--	A
Aroclor 1242	ND		ug/kg	31.7	--	A
Aroclor 1248	ND		ug/kg	31.7	--	A
Aroclor 1254	ND		ug/kg	31.7	--	A
Aroclor 1260	ND		ug/kg	31.7	--	A
Aroclor 1262	ND		ug/kg	31.7	--	A
Aroclor 1268	ND		ug/kg	31.7	--	A
PCBs, Total	ND		ug/kg	31.7	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	73		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-04 Batch: WG1194595-2 WG1194595-3									
Aroclor 1016	92		91		40-140	1		30	A
Aroclor 1260	81		82		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		81		30-150	B
Decachlorobiphenyl	51		49		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		88		30-150	A
Decachlorobiphenyl	72		74		30-150	A

PESTICIDES

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/05/19 12:33
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 05:19
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	--	1	A
Lindane	ND		ug/kg	0.566	--	1	A
Alpha-BHC	ND		ug/kg	0.708	--	1	A
Beta-BHC	ND		ug/kg	1.70	--	1	A
Heptachlor	ND		ug/kg	0.849	--	1	A
Aldrin	ND		ug/kg	1.70	--	1	A
Heptachlor epoxide	ND		ug/kg	3.18	--	1	A
Endrin	ND		ug/kg	0.708	--	1	A
Endrin ketone	ND		ug/kg	1.70	--	1	A
Dieldrin	17.1		ug/kg	1.06	--	1	B
4,4'-DDE	ND		ug/kg	1.70	--	1	A
4,4'-DDD	ND		ug/kg	1.70	--	1	A
4,4'-DDT	4.23		ug/kg	3.18	--	1	B
Endosulfan I	ND		ug/kg	1.70	--	1	A
Endosulfan II	ND		ug/kg	1.70	--	1	A
Endosulfan sulfate	ND		ug/kg	0.708	--	1	A
Methoxychlor	ND		ug/kg	3.18	--	1	A
Chlordane	ND		ug/kg	13.8	--	1	A
Hexachlorobenzene	ND		ug/kg	1.70	--	1	A
Toxaphene	ND		ug/kg	31.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/09/19 10:34
Analyst: DGM
Percent Solids: 91%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3600	--	1	B
MCPA	ND		ug/kg	3600	--	1	B
Dalapon	ND		ug/kg	36	--	1	B
Dicamba	ND		ug/kg	36	--	1	B
Dichloroprop	ND		ug/kg	36	--	1	B
2,4-D	ND		ug/kg	36	--	1	B
2,4-DB	ND		ug/kg	36	--	1	B
2,4,5-T	ND		ug/kg	36	--	1	B
2,4,5-TP (Silvex)	ND		ug/kg	36	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	104		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/05/19 12:46
Analyst: KEG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 05:19
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	--	1	A
Lindane	ND		ug/kg	0.619	--	1	A
Alpha-BHC	ND		ug/kg	0.773	--	1	A
Beta-BHC	ND		ug/kg	1.86	--	1	A
Heptachlor	ND		ug/kg	0.928	--	1	A
Aldrin	ND		ug/kg	1.86	--	1	A
Heptachlor epoxide	ND		ug/kg	3.48	--	1	A
Endrin	ND		ug/kg	0.773	--	1	A
Endrin ketone	ND		ug/kg	1.86	--	1	A
Dieldrin	5.97		ug/kg	1.16	--	1	A
4,4'-DDE	ND		ug/kg	1.86	--	1	A
4,4'-DDD	ND		ug/kg	1.86	--	1	A
4,4'-DDT	12.2		ug/kg	3.48	--	1	B
Endosulfan I	ND		ug/kg	1.86	--	1	A
Endosulfan II	ND		ug/kg	1.86	--	1	A
Endosulfan sulfate	ND		ug/kg	0.773	--	1	A
Methoxychlor	ND		ug/kg	3.48	--	1	A
Chlordane	ND		ug/kg	15.1	--	1	A
Hexachlorobenzene	ND		ug/kg	1.86	--	1	A
Toxaphene	ND		ug/kg	34.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02 D
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/09/19 10:15
Analyst: DGM
Percent Solids: 82%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	20000	--	5	B
MCPA	ND		ug/kg	20000	--	5	B
Dalapon	ND		ug/kg	200	--	5	B
Dicamba	ND		ug/kg	200	--	5	B
Dichloroprop	ND		ug/kg	200	--	5	B
2,4-D	ND		ug/kg	200	--	5	B
2,4-DB	ND		ug/kg	200	--	5	B
2,4,5-T	ND		ug/kg	200	--	5	B
2,4,5-TP (Silvex)	ND		ug/kg	200	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**0**	Q	30-150	A
DCAA	**0**	Q	30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/05/19 12:58
Analyst: KEG
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 08:40
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	2.11	--	1	A
Lindane	ND		ug/kg	0.704	--	1	A
Alpha-BHC	ND		ug/kg	0.879	--	1	A
Beta-BHC	ND		ug/kg	2.11	--	1	A
Heptachlor	ND		ug/kg	1.06	--	1	A
Aldrin	ND		ug/kg	2.11	--	1	A
Heptachlor epoxide	ND		ug/kg	3.96	--	1	A
Endrin	ND		ug/kg	0.879	--	1	A
Endrin ketone	ND		ug/kg	2.11	--	1	A
Dieldrin	ND		ug/kg	1.32	--	1	A
4,4'-DDE	ND		ug/kg	2.11	--	1	A
4,4'-DDD	ND		ug/kg	2.11	--	1	A
4,4'-DDT	ND		ug/kg	3.96	--	1	A
Endosulfan I	ND		ug/kg	2.11	--	1	A
Endosulfan II	ND		ug/kg	2.11	--	1	A
Endosulfan sulfate	ND		ug/kg	0.879	--	1	A
Methoxychlor	ND		ug/kg	3.96	--	1	A
Chlordane	ND		ug/kg	17.1	--	1	A
Hexachlorobenzene	ND		ug/kg	2.11	--	1	A
Toxaphene	ND		ug/kg	39.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/09/19 10:52
Analyst: DGM
Percent Solids: 73%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4500	--	1	B
MCPA	ND		ug/kg	4500	--	1	B
Dalapon	ND		ug/kg	45	--	1	B
Dicamba	ND		ug/kg	45	--	1	B
Dichloroprop	ND		ug/kg	45	--	1	B
2,4-D	ND		ug/kg	45	--	1	B
2,4-DB	ND		ug/kg	45	--	1	B
2,4,5-T	ND		ug/kg	45	--	1	B
2,4,5-TP (Silvex)	ND		ug/kg	45	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	126		30-150	A
DCAA	102		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/05/19 13:11
Analyst: KEG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 01/04/19 05:19
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	--	1	A
Lindane	ND		ug/kg	0.616	--	1	A
Alpha-BHC	ND		ug/kg	0.770	--	1	A
Beta-BHC	ND		ug/kg	1.85	--	1	A
Heptachlor	ND		ug/kg	0.924	--	1	A
Aldrin	ND		ug/kg	1.85	--	1	A
Heptachlor epoxide	ND		ug/kg	3.46	--	1	A
Endrin	ND		ug/kg	0.770	--	1	A
Endrin ketone	ND		ug/kg	1.85	--	1	A
Dieldrin	ND		ug/kg	1.16	--	1	A
4,4'-DDE	ND		ug/kg	1.85	--	1	A
4,4'-DDD	ND		ug/kg	1.85	--	1	A
4,4'-DDT	ND	IP	ug/kg	3.46	--	1	B
Endosulfan I	ND		ug/kg	1.85	--	1	A
Endosulfan II	ND		ug/kg	1.85	--	1	A
Endosulfan sulfate	ND		ug/kg	0.770	--	1	A
Methoxychlor	ND		ug/kg	3.46	--	1	A
Chlordane	ND		ug/kg	15.0	--	1	A
Hexachlorobenzene	ND		ug/kg	1.85	--	1	A
Toxaphene	ND		ug/kg	34.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/09/19 11:11
Analyst: DGM
Percent Solids: 85%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3800	--	1	B
MCPA	ND		ug/kg	3800	--	1	B
Dalapon	ND		ug/kg	38	--	1	B
Dicamba	ND		ug/kg	38	--	1	B
Dichloroprop	ND		ug/kg	38	--	1	B
2,4-D	ND		ug/kg	38	--	1	B
2,4-DB	ND		ug/kg	38	--	1	B
2,4,5-T	ND		ug/kg	38	--	1	B
2,4,5-TP (Silvex)	ND		ug/kg	38	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	104		30-150	B

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 01/05/19 11:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 01/04/19 05:19
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-04 Batch: WG1194674-1						
Delta-BHC	ND		ug/kg	1.52	--	A
Lindane	ND		ug/kg	0.506	--	A
Alpha-BHC	ND		ug/kg	0.633	--	A
Beta-BHC	ND		ug/kg	1.52	--	A
Heptachlor	ND		ug/kg	0.759	--	A
Aldrin	ND		ug/kg	1.52	--	A
Heptachlor epoxide	ND		ug/kg	2.85	--	A
Endrin	ND		ug/kg	0.633	--	A
Endrin ketone	ND		ug/kg	1.52	--	A
Dieldrin	ND		ug/kg	0.949	--	A
4,4'-DDE	ND		ug/kg	1.52	--	A
4,4'-DDD	ND		ug/kg	1.52	--	A
4,4'-DDT	ND		ug/kg	2.85	--	A
Endosulfan I	ND		ug/kg	1.52	--	A
Endosulfan II	ND		ug/kg	1.52	--	A
Endosulfan sulfate	ND		ug/kg	0.633	--	A
Methoxychlor	ND		ug/kg	2.85	--	A
Chlordane	ND		ug/kg	12.3	--	A
Hexachlorobenzene	ND		ug/kg	1.52	--	A
Toxaphene	ND		ug/kg	28.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 01/06/19 20:06
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 00:59

Methylation Date: 01/05/19 20:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-04 Batch: WG1195078-1						
MCPP	ND		ug/kg	3300	--	B
MCPA	ND		ug/kg	3300	--	B
Dalapon	ND		ug/kg	33	--	B
Dicamba	ND		ug/kg	33	--	B
Dichloroprop	ND		ug/kg	33	--	B
2,4-D	ND		ug/kg	33	--	B
2,4-DB	ND		ug/kg	33	--	B
2,4,5-T	ND		ug/kg	33	--	B
2,4,5-TP (Silvex)	ND		ug/kg	33	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1194674-2 WG1194674-3									
Delta-BHC	76		85		40-140	11		30	A
Lindane	82		94		40-140	14		30	A
Alpha-BHC	90		99		40-140	10		30	A
Beta-BHC	72		81		40-140	12		30	A
Heptachlor	83		94		40-140	12		30	A
Aldrin	82		85		40-140	4		30	A
Heptachlor epoxide	80		88		40-140	10		30	A
Endrin	86		88		40-140	2		30	A
Endrin ketone	78		80		40-140	3		30	A
Dieldrin	80		86		40-140	7		30	A
4,4'-DDE	77		79		40-140	3		30	A
4,4'-DDD	78		85		40-140	9		30	A
4,4'-DDT	76		82		40-140	8		30	A
Endosulfan I	76		80		40-140	5		30	A
Endosulfan II	77		84		40-140	9		30	A
Endosulfan sulfate	56		56		40-140	0		30	A
Methoxychlor	69		76		40-140	10		30	A
Hexachlorobenzene	67		74		40-140	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1194674-2 WG1194674-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	B
Decachlorobiphenyl	78		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		77		30-150	A
Decachlorobiphenyl	72		74		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-04 Batch: WG1194674-4 WG1194674-5									
Toxaphene	108		122		40-140	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		94		30-150	B
Decachlorobiphenyl	83		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		87		30-150	A
Decachlorobiphenyl	71		69		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-04 Batch: WG1195078-2 WG1195078-3									
MCPP	92		92		40-140	0		30	B
MCPA	90		92		40-140	2		30	B
Dalapon	66		68		40-140	3		30	B
Dicamba	89		92		40-140	3		30	B
Dichloroprop	92		96		40-140	4		30	B
2,4-D	86		88		40-140	2		30	B
2,4-DB	84		88		40-140	5		30	B
2,4,5-T	95		97		40-140	2		30	B
2,4,5-TP (Silvex)	83		86		40-140	4		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		96		30-150	A
DCAA	87		91		30-150	B

METALS

Project Name: WYNN EVERETT
Lab Number: L1900350
Project Number: 171521.52
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	2.10	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Arsenic, Total	8.48		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Barium, Total	32.7		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Beryllium, Total	ND		mg/kg	0.210	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Chromium, Total	3.08		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Lead, Total	108		mg/kg	2.10	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Mercury, Total	0.512		mg/kg	0.069	--	1	01/04/19 07:45	01/04/19 19:14	EPA 7471B	97,7471B	EA
Nickel, Total	2.78		mg/kg	1.05	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Selenium, Total	ND		mg/kg	2.10	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Thallium, Total	ND		mg/kg	2.10	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Vanadium, Total	4.74		mg/kg	0.421	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC
Zinc, Total	49.8		mg/kg	2.10	--	1	01/04/19 19:15	01/07/19 12:46	EPA 3050B	97,6010D	LC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	29.8		mg/kg	2.34	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Arsenic, Total	22.6		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Barium, Total	86.9		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Beryllium, Total	ND		mg/kg	0.234	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Chromium, Total	6.86		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Lead, Total	472		mg/kg	2.34	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Mercury, Total	0.900		mg/kg	0.076	--	1	01/04/19 07:45	01/04/19 19:16	EPA 7471B	97,7471B	EA
Nickel, Total	5.95		mg/kg	1.17	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Selenium, Total	3.51		mg/kg	2.34	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Thallium, Total	ND		mg/kg	2.34	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Vanadium, Total	14.8		mg/kg	0.468	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC
Zinc, Total	74.4		mg/kg	2.34	--	1	01/04/19 19:15	01/07/19 12:59	EPA 3050B	97,6010D	LC

Project Name: WYNN EVERETT
Lab Number: L1900350
Project Number: 171521.52
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	6.96		mg/kg	2.70	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Arsenic, Total	24.8		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Barium, Total	83.7		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Beryllium, Total	ND		mg/kg	0.270	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Chromium, Total	12.5		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Lead, Total	114		mg/kg	2.70	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Mercury, Total	2.26		mg/kg	0.086	--	1	01/04/19 07:45	01/04/19 19:18	EPA 7471B	97,7471B	EA
Nickel, Total	8.19		mg/kg	1.35	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Selenium, Total	ND		mg/kg	2.70	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Thallium, Total	ND		mg/kg	2.70	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Vanadium, Total	19.4		mg/kg	0.540	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC
Zinc, Total	32.4		mg/kg	2.70	--	1	01/04/19 19:15	01/07/19 13:04	EPA 3050B	97,6010D	LC

Project Name: WYNN EVERETT
Lab Number: L1900350
Project Number: 171521.52
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/kg	2.25	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Arsenic, Total	8.21		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Barium, Total	43.0		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Beryllium, Total	0.310		mg/kg	0.225	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Chromium, Total	24.9		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Lead, Total	36.2		mg/kg	2.25	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Mercury, Total	ND		mg/kg	0.074	--	1	01/04/19 07:45	01/04/19 19:21	EPA 7471B	97,7471B	EA
Nickel, Total	13.5		mg/kg	1.12	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Selenium, Total	ND		mg/kg	2.25	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Thallium, Total	ND		mg/kg	2.25	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Vanadium, Total	28.8		mg/kg	0.449	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC
Zinc, Total	33.1		mg/kg	2.25	--	1	01/04/19 19:15	01/07/19 13:08	EPA 3050B	97,6010D	LC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1194655-1										
Mercury, Total	ND		mg/kg	0.083	--	1	01/04/19 07:45	01/04/19 18:42	97,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1194872-1										
Antimony, Total	ND		mg/kg	2.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Barium, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Chromium, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Lead, Total	ND		mg/kg	2.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Nickel, Total	ND		mg/kg	1.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Selenium, Total	ND		mg/kg	2.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Silver, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Thallium, Total	ND		mg/kg	2.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC
Zinc, Total	ND		mg/kg	2.00	--	1	01/04/19 19:15	01/07/19 12:07	97,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1194655-2 WG1194655-3 SRM Lot Number: D102-540								
Mercury, Total	91		80		65-134	13		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1194872-2 WG1194872-3 SRM Lot Number: D102-540								
Antimony, Total	184		164		1-199	11		30
Arsenic, Total	105		96		83-117	9		30
Barium, Total	101		92		83-118	9		30
Beryllium, Total	100		89		83-116	12		30
Cadmium, Total	105		91		83-118	14		30
Chromium, Total	100		90		83-117	11		30
Lead, Total	102		92		82-118	10		30
Nickel, Total	110		93		83-117	17		30
Selenium, Total	107		96		79-121	11		30
Silver, Total	107		97		80-120	10		30
Thallium, Total	112		94		81-119	17		30
Vanadium, Total	99		87		80-120	13		30
Zinc, Total	98		88		81-118	11		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/04/19 05:40	1,1030	GD

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/04/19 05:40	1,1030	GD

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/04/19 05:40	1,1030	GD

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/04/19 05:40	1,1030	GD

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil
Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	11		umhos/cm	10	--	1	-	01/03/19 22:00	1,9050A	AS
Solids, Total	91.0		%	0.100	NA	1	-	01/04/19 13:40	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	01/03/19 19:22	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	01/04/19 11:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:49	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:25	125,7.3	KF

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	20		umhos/cm	10	--	1	-	01/03/19 22:00	1,9050A	AS
Solids, Total	82.1		%	0.100	NA	1	-	01/04/19 13:40	121,2540G	RI
pH (H)	6.7		SU	-	NA	1	-	01/03/19 19:22	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	01/04/19 11:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:49	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:26	125,7.3	KF

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	18		umhos/cm	10	--	1	-	01/03/19 22:00	1,9050A	AS
Solids, Total	72.8		%	0.100	NA	1	-	01/04/19 13:40	121,2540G	RI
pH (H)	6.4		SU	-	NA	1	-	01/03/19 19:22	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	01/04/19 11:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:51	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:27	125,7.3	KF

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

SAMPLE RESULTS

Lab ID: L1900350-04
Client ID: BF-3
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 13:30
Date Received: 01/03/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	13		umhos/cm	10	--	1	-	01/03/19 22:00	1,9050A	AS
Solids, Total	85.2		%	0.100	NA	1	-	01/04/19 13:40	121,2540G	RI
pH (H)	4.8		SU	-	NA	1	-	01/03/19 19:22	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	01/04/19 11:40	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:52	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:27	125,7.3	KF

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900350
Report Date: 01/09/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1194619-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:19	125,7.3	KF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1194620-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	01/04/19 00:47	01/04/19 02:44	125,7.3	KF

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900350

Report Date: 01/09/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1194575-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1194589-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1194619-2								
Sulfide, Reactive	92		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1194620-2								
Cyanide, Reactive	44		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1194740-1								
Flash Point	99		-		96-104	-		

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900350-01A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1900350-01B	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-01C	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-01D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1900350-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1900350-01F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-01G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-02A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1900350-02B	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-02C	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-02D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1900350-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900350-02F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-02G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-03A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1900350-03B	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-03C	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-03D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1900350-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1900350-03F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-03G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-04A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1900350-04B	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-04C	Vial water preserved	A	NA		3.6	Y	Absent	03-JAN-19 18:42	MCP-8260HLW-10(14)
L1900350-04D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1900350-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900350
Report Date: 01/09/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900350-04F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900350-04G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1900350
Project Number:	171521.52	**Report Date:**	01/09/19

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1900350
Project Number:	171521.52	**Report Date:**	01/09/19

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1900350
Project Number:	171521.52	**Report Date:**	01/09/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 624/624.1: 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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; 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, SM4500Cl-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**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, 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: Al, 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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

CHAIN OF CUSTODY

PAGE OF

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: ~~1/3/18~~ 1/3/19

ALPHA Job #: L1900350

Client Information

Client: GZA
Address: 249 Vanderbilt Ave
Norwood, MA
Phone: (781) 278-3700
Fax: (781) 278-5752
Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: Wynn Boston Harbor
Project Location: 1 Horizon Way, Everett MA
Project #: 01.0171521.52
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: 4 day RUSH Time: —

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP 20x rule applies for MCP-14 metals

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
00350-01	BF-6	1/3/19	12:00	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
02	BF-5	1/3/19	12:30	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
03	BF-4	1/3/19	13:00	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
04	BF-3	1/3/19	13:30	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 5-JAN-12)

Relinquished By:	Date/Time	Received By:	Date/Time
Eric Nygaard	1/3/19 15:25	[signature] AAL	1/3/19 15:25
[signature] AAL	1/3/19 17:30	[signature]	1/3/19 1730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Method Blank Summary
Form 4
VOLATILES

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900350
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1195227-5	**Lab File ID**	: VC190105B04
Instrument ID	: CHARLIE		
Matrix	: SOIL	**Analysis Date**	: 01/05/19 13:32

Client Sample No.	Lab Sample ID	Analysis Date
WG1195227-3LCS	WG1195227-3	01/05/19 12:09
WG1195227-4LCSD	WG1195227-4	01/05/19 12:37
BF-6	L1900350-01	01/05/19 14:00
BF-5	L1900350-02	01/05/19 14:27
BF-3	L1900350-04	01/05/19 14:55
BF-4	L1900350-03	01/05/19 15:23

Method Blank Summary
Form 4
VOLATILES

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900350
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Lab Sample ID	: WG1195227-10	**Lab File ID**	: VC190106A05
Instrument ID	: CHARLIE		
Matrix	: SOIL	**Analysis Date**	: 01/06/19 11:23

Client Sample No.	Lab Sample ID	Analysis Date
WG1195227-8LCS	WG1195227-8	01/06/19 10:00
WG1195227-9LCSD	WG1195227-9	01/06/19 10:27
BF-6	L1900350-01R	01/06/19 11:51
BF-5	L1900350-02R	01/06/19 12:18
BF-4	L1900350-03R	01/06/19 12:46

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1900350		
Project Name	: WYNN EVERETT	Project Number	: 171521.52		
Instrument ID	: CHARLIE	Calibration Date	: 01/05/19 12:09		
Lab File ID	: VC190105B01	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1195227-2	Init. Calib. Times	: 17:40	00:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	125	0
Dichlorodifluoromethane	0.315	0.205	-	34.9*	20	88	0
Chloromethane	20	19.477	-	2.6	20	131	0
Vinyl chloride	0.455	0.457	-	-0.4	20	129	0
Bromomethane	0.408	0.331	-	18.9	20	109	0
Chloroethane	0.404	0.373	-	7.7	20	117	0
Trichlorofluoromethane	0.873	0.891	-	-2.1	20	127	0
Ethyl ether	0.372	0.327	-	12.1	20	103	0
1,1-Dichloroethene	0.318	0.294	-	7.5	20	125	0
Carbon disulfide	0.909	0.797	-	12.3	20	119	0
Freon-113	0.325	0.336	-	-3.4	20	136	0
Acrolein	0.03	0.039*	-	-30*	20	164	0
Methylene chloride	0.399	0.35	-	12.3	20	113	0
Acetone	20	21.975	-	-9.9	20	130	0
trans-1,2-Dichloroethene	0.358	0.336	-	6.1	20	123	0
Methyl acetate	0.201	0.18	-	10.4	20	108	0
Methyl tert-butyl ether	0.912	0.872	-	4.4	20	118	0
tert-Butyl alcohol	0.033	0.032*	-	3	20	125	0
Diisopropyl ether	0.902	0.927	-	-2.8	20	126	0
1,1-Dichloroethane	0.605	0.62	-	-2.5	20	130	0
Halothane	0.29	0.295	-	-1.7	20	131	0
Acrylonitrile	0.095	0.09	-	5.3	20	120	0
Ethyl tert-butyl ether	0.913	0.975	-	-6.8	20	131	0
Vinyl acetate	0.594	0.706	-	-18.9	20	149	0
cis-1,2-Dichloroethene	0.401	0.404	-	-0.7	20	125	0
2,2-Dichloropropane	0.457	0.502	-	-9.8	20	142	0
Bromochloromethane	0.219	0.217	-	0.9	20	121	0
Cyclohexane	0.439	0.51	-	-16.2	20	150	0
Chloroform	0.658	0.67	-	-1.8	20	129	0
Ethyl acetate	0.282	0.28	-	0.7	20	124	0
Carbon tetrachloride	0.505	0.518	-	-2.6	20	133	0
Tetrahydrofuran	0.082	0.087	-	-6.1	20	131	0
Dibromofluoromethane	0.297	0.285	-	4	20	122	0
1,1,1-Trichloroethane	0.537	0.577	-	-7.4	20	137	0
2-Butanone	0.117	0.134	-	-14.5	20	132	0
1,1-Dichloropropene	0.402	0.473	-	-17.7	20	144	0
Benzene	1.371	1.41	-	-2.8	20	129	0
tert-Amyl methyl ether	0.909	0.94	-	-3.4	20	126	0
1,2-Dichloroethane-d4	0.26	0.263	-	-1.2	20	133	0
1,2-Dichloroethane	0.476	0.482	-	-1.3	20	125	0
Methyl cyclohexane	0.539	0.616	-	-14.3	20	148	0
Trichloroethene	0.378	0.392	-	-3.7	20	132	0
Dibromomethane	0.241	0.239	-	0.8	20	120	0
1,2-Dichloropropane	0.34	0.342	-	-0.6	20	124	0
2-Chloroethyl vinyl ether	20	21.527	-	-7.6	20	158	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1900350		
Project Name	: WYNN EVERETT	Project Number	: 171521.52		
Instrument ID	: CHARLIE	Calibration Date	: 01/05/19 12:09		
Lab File ID	: VC190105B01	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1195227-2	Init. Calib. Times	: 17:40	00:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.506	0.507	-	-0.2	20	122	0
1,4-Dioxane	0.00374	0.00324*	-	13.4	20	104	0
cis-1,3-Dichloropropene	20	19.383	-	3.1	20	125	0
Chlorobenzene-d5	1	1	-	0	20	117	0
Toluene-d8	1.196	1.229	-	-2.8	20	119	0
Toluene	1.038	1.14	-	-9.8	20	129	0
4-Methyl-2-pentanone	0.127	0.123	-	3.1	20	125	0
Tetrachloroethene	0.476	0.535	-	-12.4	20	131	0
trans-1,3-Dichloropropene	20	19.959	-	0.2	20	125	0
Ethyl methacrylate	0.497	0.467	-	6	20	118	0
1,1,2-Trichloroethane	0.336	0.352	-	-4.8	20	117	0
Chlorodibromomethane	0.508	0.503	-	1	20	112	0
1,3-Dichloropropane	0.645	0.698	-	-8.2	20	121	0
1,2-Dibromoethane	0.395	0.41	-	-3.8	20	113	0
2-Hexanone	0.212	0.213	-	-0.5	20	128	0
Chlorobenzene	1.327	1.411	-	-6.3	20	126	0
Ethylbenzene	1.968	2.212	-	-12.4	20	129	0
1,1,1,2-Tetrachloroethane	0.477	0.496	-	-4	20	116	0
p/m Xylene	0.784	0.903	-	-15.2	20	130	0
o Xylene	0.755	0.873	-	-15.6	20	126	0
Styrene	40	39.912	-	0.2	20	119	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	114	.01
Bromoform	0.6	0.59	-	1.7	20	110	0
Isopropylbenzene	3.386	3.871	-	-14.3	20	128	0
4-Bromofluorobenzene	0.801	0.819	-	-2.2	20	118	0
Bromobenzene	1.024	1.067	-	-4.2	20	117	0
n-Propylbenzene	4.128	4.786	-	-15.9	20	133	0
1,4-Dichlorobutane	0.991	1.073	-	-8.3	20	120	0
1,1,2,2-Tetrachloroethane	0.969	0.963	-	0.6	20	110	.01
4-Ethyltoluene	3.539	3.991	-	-12.8	20	125	.01
2-Chlorotoluene	2.568	2.824	-	-10	20	123	0
1,3,5-Trimethylbenzene	3.022	3.514	-	-16.3	20	131	.01
1,2,3-Trichloropropane	0.749	0.767	-	-2.4	20	120	.01
trans-1,4-Dichloro-2-buten	20	21.111	-	-5.6	20	139	0
4-Chlorotoluene	2.578	2.968	-	-15.1	20	128	0
tert-Butylbenzene	2.511	2.798	-	-11.4	20	125	.01
1,2,4-Trimethylbenzene	2.943	3.377	-	-14.7	20	125	.01
sec-Butylbenzene	3.818	4.295	-	-12.5	20	127	.01
p-Isopropyltoluene	3.22	3.858	-	-19.8	20	132	.01
1,3-Dichlorobenzene	1.965	2.191	-	-11.5	20	126	.01
1,4-Dichlorobenzene	2.092	2.256	-	-7.8	20	124	.01
p-Diethylbenzene	1.966	2.178	-	-10.8	20	122	.01
n-Butylbenzene	3.036	3.493	-	-15.1	20	130	.01
1,2-Dichlorobenzene	1.903	2.005	-	-5.4	20	118	.01
1,2,4,5-Tetramethylbenzene	3.209	3.38	-	-5.3	20	119	.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.		**Lab Number**	: L1900350	
Project Name	: WYNN EVERETT		**Project Number**	: 171521.52	
Instrument ID	: CHARLIE		**Calibration Date**	: 01/05/19 12:09	
Lab File ID	: VC190105B01		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1195227-2		**Init. Calib. Times**	: 17:40	00:09
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.158	0.156	-	1.3	20	114	.02
1,3,5-Trichlorobenzene	1.465	1.631	-	-11.3	20	124	.02
Hexachlorobutadiene	0.609	0.688	-	-13	20	132	.02
1,2,4-Trichlorobenzene	1.294	1.461	-	-12.9	20	127	.02
Naphthalene	3.055	3.159	-	-3.4	20	117	.02
1,2,3-Trichlorobenzene	1.278	1.289	-	-0.9	20	113	.03

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1900350		
Project Name	: WYNN EVERETT	Project Number	: 171521.52		
Instrument ID	: CHARLIE	Calibration Date	: 01/06/19 10:00		
Lab File ID	: VC190106A02	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1195227-7	Init. Calib. Times	: 17:40	00:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	109	0
Dichlorodifluoromethane	0.315	0.173	-	45.1*	20	65	0
Chloromethane	20	18.592	-	7	20	109	0
Vinyl chloride	0.455	0.441	-	3.1	20	109	0
Bromomethane	0.408	0.36	-	11.8	20	104	0
Chloroethane	0.404	0.414	-	-2.5	20	113	0
Trichlorofluoromethane	0.873	0.859	-	1.6	20	107	0
Ethyl ether	0.372	0.364	-	2.2	20	100	0
1,1-Dichloroethene	0.318	0.276	-	13.2	20	102	0
Carbon disulfide	0.909	0.794	-	12.7	20	104	0
Freon-113	0.325	0.305	-	6.2	20	107	0
Acrolein	0.03	0.043*	-	-43.3*	20	156	0
Methylene chloride	0.399	0.363	-	9	20	102	0
Acetone	20	22.178	-	-10.9	20	115	0
trans-1,2-Dichloroethene	0.358	0.329	-	8.1	20	105	0
Methyl acetate	0.201	0.191	-	5	20	101	0
Methyl tert-butyl ether	0.912	0.878	-	3.7	20	103	0
tert-Butyl alcohol	0.033	0.033*	-	0	20	112	0
Diisopropyl ether	0.902	0.913	-	-1.2	20	108	0
1,1-Dichloroethane	0.605	0.623	-	-3	20	114	0
Halothane	0.29	0.293	-	-1	20	114	0
Acrylonitrile	0.095	0.098	-	-3.2	20	113	0
Ethyl tert-butyl ether	0.913	0.962	-	-5.4	20	112	0
Vinyl acetate	0.594	0.731	-	-23.1*	20	134	0
cis-1,2-Dichloroethene	0.401	0.409	-	-2	20	110	0
2,2-Dichloropropane	0.457	0.491	-	-7.4	20	121	0
Bromochloromethane	0.219	0.223	-	-1.8	20	109	0
Cyclohexane	0.439	0.454	-	-3.4	20	116	0
Chloroform	0.658	0.68	-	-3.3	20	114	0
Ethyl acetate	0.282	0.299	-	-6	20	115	0
Carbon tetrachloride	0.505	0.512	-	-1.4	20	115	0
Tetrahydrofuran	0.082	0.088	-	-7.3	20	116	0
Dibromofluoromethane	0.297	0.301	-	-1.3	20	113	0
1,1,1-Trichloroethane	0.537	0.566	-	-5.4	20	117	0
2-Butanone	0.117	0.122	-	-4.3	20	105	0
1,1-Dichloropropene	0.402	0.456	-	-13.4	20	121	0
Benzene	1.371	1.441	-	-5.1	20	115	0
tert-Amyl methyl ether	0.909	0.962	-	-5.8	20	112	0
1,2-Dichloroethane-d4	0.26	0.276	-	-6.2	20	121	0
1,2-Dichloroethane	0.476	0.489	-	-2.7	20	110	0
Methyl cyclohexane	0.539	0.54	-	-0.2	20	113	0
Trichloroethene	0.378	0.397	-	-5	20	117	0
Dibromomethane	0.241	0.249	-	-3.3	20	109	0
1,2-Dichloropropane	0.34	0.348	-	-2.4	20	110	0
2-Chloroethyl vinyl ether	20	22.073	-	-10.4	20	142	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1900350		
Project Name	: WYNN EVERETT	Project Number	: 171521.52		
Instrument ID	: CHARLIE	Calibration Date	: 01/06/19 10:00		
Lab File ID	: VC190106A02	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1195227-7	Init. Calib. Times	: 17:40	00:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.506	0.524	-	-3.6	20	110	0
1,4-Dioxane	0.00374	0.00414*	-	-10.7	20	116	-.01
cis-1,3-Dichloropropene	20	19.775	-	1.1	20	111	0
Chlorobenzene-d5	1	1	-	0	20	104	0
Toluene-d8	1.196	1.255	-	-4.9	20	108	0
Toluene	1.038	1.127	-	-8.6	20	114	0
4-Methyl-2-pentanone	0.127	0.126	-	0.8	20	113	0
Tetrachloroethene	0.476	0.503	-	-5.7	20	109	0
trans-1,3-Dichloropropene	20	20.164	-	-0.8	20	113	0
Ethyl methacrylate	0.497	0.476	-	4.2	20	107	0
1,1,2-Trichloroethane	0.336	0.364	-	-8.3	20	107	0
Chlorodibromomethane	0.508	0.53	-	-4.3	20	105	0
1,3-Dichloropropane	0.645	0.705	-	-9.3	20	108	0
1,2-Dibromoethane	0.395	0.427	-	-8.1	20	105	0
2-Hexanone	0.212	0.218	-	-2.8	20	117	0
Chlorobenzene	1.327	1.416	-	-6.7	20	112	0
Ethylbenzene	1.968	2.203	-	-11.9	20	114	0
1,1,1,2-Tetrachloroethane	0.477	0.507	-	-6.3	20	106	0
p/m Xylene	0.784	0.845	-	-7.8	20	108	0
o Xylene	0.755	0.846	-	-12.1	20	109	0
Styrene	40	41.071	-	-2.7	20	109	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.6	0.644	-	-7.3	20	105	0
Isopropylbenzene	3.386	3.936	-	-16.2	20	114	0
4-Bromofluorobenzene	0.801	0.834	-	-4.1	20	106	0
Bromobenzene	1.024	1.09	-	-6.4	20	105	0
n-Propylbenzene	4.128	4.519	-	-9.5	20	110	0
1,4-Dichlorobutane	0.991	1.066	-	-7.6	20	105	0
1,1,2,2-Tetrachloroethane	0.969	0.998	-	-3	20	100	0
4-Ethyltoluene	3.539	3.788	-	-7	20	104	0
2-Chlorotoluene	2.568	2.704	-	-5.3	20	103	0
1,3,5-Trimethylbenzene	3.022	3.387	-	-12.1	20	111	0
1,2,3-Trichloropropane	0.749	0.782	-	-4.4	20	107	0
trans-1,4-Dichloro-2-buten	20	21.008	-	-5	20	122	0
4-Chlorotoluene	2.578	2.853	-	-10.7	20	108	0
tert-Butylbenzene	2.511	2.913	-	-16	20	114	0
1,2,4-Trimethylbenzene	2.943	3.555	-	-20.8*	20	115	0
sec-Butylbenzene	3.818	4.182	-	-9.5	20	109	0
p-Isopropyltoluene	3.22	3.709	-	-15.2	20	112	0
1,3-Dichlorobenzene	1.965	2.124	-	-8.1	20	108	0
1,4-Dichlorobenzene	2.092	2.185	-	-4.4	20	106	0
p-Diethylbenzene	1.966	2.181	-	-10.9	20	107	0
n-Butylbenzene	3.036	3.461	-	-14	20	113	0
1,2-Dichlorobenzene	1.903	2.016	-	-5.9	20	105	0
1,2,4,5-Tetramethylbenzene	3.209	3.397	-	-5.9	20	105	.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.		**Lab Number**	: L1900350	
Project Name	: WYNN EVERETT		**Project Number**	: 171521.52	
Instrument ID	: CHARLIE		**Calibration Date**	: 01/06/19 10:00	
Lab File ID	: VC190106A02		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1195227-7		**Init. Calib. Times**	: 17:40	00:09
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.158	0.164	-	-3.8	20	106	.01
1,3,5-Trichlorobenzene	1.465	1.558	-	-6.3	20	104	.01
Hexachlorobutadiene	0.609	0.589	-	3.3	20	100	.02
1,2,4-Trichlorobenzene	1.294	1.354	-	-4.6	20	103	.01
Naphthalene	3.055	3.131	-	-2.5	20	102	.02
1,2,3-Trichlorobenzene	1.278	1.361	-	-6.5	20	105	.02

* Value outside of QC limits.

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900350
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Instrument ID	: PEST20	**Analysis Date**	: 01/05/19 10:44
PEM Standard	: R1147417-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	897052.51912	1149111.07091
Endrin	195874084.61779	89260082.68884
4,4'-DDD	1389402.60155	171168.8764
4,4'-DDT	344784827.63593	158628539.43121
Endrin Aldehyde	575922.19977	1062852.11004
Endrin Ketone	1950611.79634	798218.98613

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.27	2.04
DDT	0.659	0.825

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900350
Project Name	: WYNN EVERETT	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 01/05/19 11:01
PEM Standard	: R1147387-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1247544	872431.15959
Endrin	231296790.58045	153747297.15309
4,4'-DDD	3276956.57129	1910610.02658
4,4'-DDT	364193316.222	307978003.41741
Endrin Aldehyde	1107602.32999	724097.03541
Endrin Ketone	2353053.46758	2568886.27487

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.47	2.10
DDT	1.23	0.896

ANALYTICAL REPORT

Lab Number:	L1900497
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Matthew Smith
Phone:	(781) 278-5830
Project Name:	WYNN BOSTON HARBOR
Project Number:	171521.52
Report Date:	01/10/19

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

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1900497-01	BF-1	SOIL	1 HORIZON WAY, EVERETT, MA	01/04/19 07:30	01/04/19
L1900497-02	BF-2	SOIL	1 HORIZON WAY, EVERETT, MA	01/04/19 08:30	01/04/19

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

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 affirmative 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	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
E b.	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 response 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
H	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 BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

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 BOSTON HARBOR	**Lab Number:**	L1900497
Project Number:	171521.52	**Report Date:**	01/10/19

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.

Volatile Organics

The continuing calibration standard, associated with L1900497-01 and -02, is included as an addendum to this report.

In reference to question H:

The initial calibration, associated with L1900497-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.0017), as well as the average response factor for 1,4-dioxane.

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.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 01/10/19

ORGANICS

VOLATILES

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/07/19 19:08
Analyst: AD
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.87	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.87	--	1
1,2-Dichloropropane	ND		ug/kg	0.87	--	1
Dibromochloromethane	ND		ug/kg	0.87	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	--	1
Tetrachloroethene	ND		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.87	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	1.3		ug/kg	0.87	--	1
Ethylbenzene	ND		ug/kg	0.87	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.87	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.87	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01 Date Collected: 01/04/19 07:30

Client ID: BF-1 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.87	--	1
Xylenes, Total	ND		ug/kg	0.87	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.87	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.87	--	1
Dichlorodifluoromethane	ND		ug/kg	8.7	--	1
Acetone	14		ug/kg	8.7	--	1
Carbon disulfide	ND		ug/kg	8.7	--	1
Methyl ethyl ketone	ND		ug/kg	8.7	--	1
Methyl isobutyl ketone	ND		ug/kg	8.7	--	1
2-Hexanone	ND		ug/kg	8.7	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.87	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.87	--	1
sec-Butylbenzene	ND		ug/kg	0.87	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.87	--	1
p-Isopropyltoluene	ND		ug/kg	0.87	--	1
Naphthalene	ND		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.87	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01 Date Collected: 01/04/19 07:30

Client ID: BF-1 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	87	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 01/07/19 19:34
Analyst: AD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.58	--	1
Chlorobenzene	ND		ug/kg	0.58	--	1
Trichlorofluoromethane	ND		ug/kg	4.7	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	--	1
Bromodichloromethane	ND		ug/kg	0.58	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	--	1
1,1-Dichloropropene	ND		ug/kg	0.58	--	1
Bromoform	ND		ug/kg	4.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Benzene	ND		ug/kg	0.58	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.7	--	1
Bromomethane	ND		ug/kg	2.3	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.3	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02 Date Collected: 01/04/19 08:30

Client ID: BF-2 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	--	1
Methyl tert butyl ether	ND		ug/kg	2.3	--	1
p/m-Xylene	ND		ug/kg	2.3	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	12	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.3	--	1
Tetrahydrofuran	ND		ug/kg	4.7	--	1
2,2-Dichloropropane	ND		ug/kg	2.3	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	--	1
Bromobenzene	ND		ug/kg	2.3	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.3	--	1
o-Chlorotoluene	ND		ug/kg	2.3	--	1
p-Chlorotoluene	ND		ug/kg	2.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	--	1
Hexachlorobutadiene	ND		ug/kg	4.7	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.7	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	--	1
Diethyl ether	ND		ug/kg	2.3	--	1
Diisopropyl Ether	ND		ug/kg	2.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.3	--	1
1,4-Dioxane	ND		ug/kg	120	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/07/19 16:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1195494-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/07/19 16:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1195494-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/07/19 16:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1195494-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	100	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	10	--
Ethyl Acetate	ND		ug/kg	10	--
Freon-113	ND		ug/kg	4.0	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 01/07/19 16:32
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1195494-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1195494-3 WG1195494-4								
Methylene chloride	87		87		70-130	0		20
1,1-Dichloroethane	91		93		70-130	2		20
Chloroform	94		92		70-130	2		20
Carbon tetrachloride	92		93		70-130	1		20
1,2-Dichloropropane	92		93		70-130	1		20
Dibromochloromethane	95		96		70-130	1		20
1,1,2-Trichloroethane	94		94		70-130	0		20
Tetrachloroethene	94		96		70-130	2		20
Chlorobenzene	91		92		70-130	1		20
Trichlorofluoromethane	91		93		70-130	2		20
1,2-Dichloroethane	92		94		70-130	2		20
1,1,1-Trichloroethane	91		93		70-130	2		20
Bromodichloromethane	93		94		70-130	1		20
trans-1,3-Dichloropropene	94		95		70-130	1		20
cis-1,3-Dichloropropene	93		95		70-130	2		20
1,1-Dichloropropene	93		95		70-130	2		20
Bromoform	96		98		70-130	2		20
1,1,2,2-Tetrachloroethane	90		90		70-130	0		20
Benzene	91		93		70-130	2		20
Toluene	92		93		70-130	1		20
Ethylbenzene	92		94		70-130	2		20
Chloromethane	101		90		70-130	12		20
Bromomethane	90		91		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1195494-3 WG1195494-4								
Vinyl chloride	90		91		70-130	1		20
Chloroethane	92		94		70-130	2		20
1,1-Dichloroethene	91		93		70-130	2		20
trans-1,2-Dichloroethene	91		93		70-130	2		20
Trichloroethene	91		93		70-130	2		20
1,2-Dichlorobenzene	91		93		70-130	2		20
1,3-Dichlorobenzene	92		95		70-130	3		20
1,4-Dichlorobenzene	92		94		70-130	2		20
Methyl tert butyl ether	94		94		70-130	0		20
p/m-Xylene	92		94		70-130	2		20
o-Xylene	91		92		70-130	1		20
cis-1,2-Dichloroethene	93		94		70-130	1		20
Dibromomethane	94		94		70-130	0		20
1,4-Dichlorobutane	91		92		70-130	1		20
1,2,3-Trichloropropane	94		94		70-130	0		20
Styrene	91		93		70-130	2		20
Dichlorodifluoromethane	89		89		70-130	0		20
Acetone	110		90		70-130	20		20
Carbon disulfide	90		90		70-130	0		20
Methyl ethyl ketone	100		97		70-130	3		20
Methyl isobutyl ketone	94		90		70-130	4		20
2-Hexanone	95		93		70-130	2		20
Ethyl methacrylate	93		93		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1195494-3 WG1195494-4								
Acrylonitrile	100		96		70-130	4		20
Bromochloromethane	96		97		70-130	1		20
Tetrahydrofuran	103		98		70-130	5		20
2,2-Dichloropropane	94		94		70-130	0		20
1,2-Dibromoethane	94		96		70-130	2		20
1,3-Dichloropropane	94		95		70-130	1		20
1,1,1,2-Tetrachloroethane	91		93		70-130	2		20
Bromobenzene	92		94		70-130	2		20
n-Butylbenzene	92		94		70-130	2		20
sec-Butylbenzene	91		94		70-130	3		20
tert-Butylbenzene	91		93		70-130	2		20
o-Chlorotoluene	91		92		70-130	1		20
p-Chlorotoluene	91		94		70-130	3		20
1,2-Dibromo-3-chloropropane	94		93		70-130	1		20
Hexachlorobutadiene	95		95		70-130	0		20
Isopropylbenzene	92		94		70-130	2		20
p-Isopropyltoluene	92		94		70-130	2		20
Naphthalene	92		92		70-130	0		20
n-Propylbenzene	91		94		70-130	3		20
1,2,3-Trichlorobenzene	94		95		70-130	1		20
1,2,4-Trichlorobenzene	95		96		70-130	1		20
1,3,5-Trimethylbenzene	91		94		70-130	3		20
1,2,4-Trimethylbenzene	92		94		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1195494-3 WG1195494-4								
trans-1,4-Dichloro-2-butene	94		94		70-130	0		20
Diethyl ether	94		96		70-130	2		20
Diisopropyl Ether	93		94		70-130	1		20
Ethyl-Tert-Butyl-Ether	93		94		70-130	1		20
Tertiary-Amyl Methyl Ether	93		94		70-130	1		20
1,4-Dioxane	90		89		70-130	1		20
2-Chloroethylvinyl ether	101		98		70-130	3		20
Halothane	92		94		70-130	2		20
Ethyl Acetate	97		94		70-130	3		20
Freon-113	92		93		70-130	1		20
Vinyl acetate	95		96		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	103		101		70-130

SEMIVOLATILES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/07/19 04:36
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	160	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	--	1
2-Chloronaphthalene	ND		ug/kg	190	--	1
1,2-Dichlorobenzene	ND		ug/kg	190	--	1
1,3-Dichlorobenzene	ND		ug/kg	190	--	1
1,4-Dichlorobenzene	ND		ug/kg	190	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	--	1
2,4-Dinitrotoluene	ND		ug/kg	190	--	1
2,6-Dinitrotoluene	ND		ug/kg	190	--	1
Azobenzene	ND		ug/kg	190	--	1
Fluoranthene	ND		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	--	1
Hexachlorobutadiene	ND		ug/kg	190	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	170	--	1
Naphthalene	ND		ug/kg	190	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	--	1
Butyl benzyl phthalate	ND		ug/kg	190	--	1
Di-n-butylphthalate	ND		ug/kg	190	--	1
Di-n-octylphthalate	ND		ug/kg	190	--	1
Diethyl phthalate	ND		ug/kg	190	--	1
Dimethyl phthalate	ND		ug/kg	190	--	1
Benzo(a)anthracene	ND		ug/kg	120	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01 Date Collected: 01/04/19 07:30

Client ID: BF-1 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	--	1
Benzo(b)fluoranthene	ND		ug/kg	120	--	1
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	ND		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	ND		ug/kg	120	--	1
Benzo(ghi)perylene	ND		ug/kg	160	--	1
Fluorene	ND		ug/kg	190	--	1
Phenanthrene	ND		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	--	1
Pyrene	ND		ug/kg	120	--	1
Aniline	ND		ug/kg	230	--	1
4-Chloroaniline	ND		ug/kg	190	--	1
Dibenzofuran	ND		ug/kg	190	--	1
2-Methylnaphthalene	ND		ug/kg	230	--	1
Acetophenone	ND		ug/kg	190	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	190	--	1
2,4-Dichlorophenol	ND		ug/kg	170	--	1
2,4-Dimethylphenol	ND		ug/kg	190	--	1
2-Nitrophenol	ND		ug/kg	420	--	1
4-Nitrophenol	ND		ug/kg	270	--	1
2,4-Dinitrophenol	ND		ug/kg	930	--	1
Pentachlorophenol	ND		ug/kg	390	--	1
Phenol	ND		ug/kg	190	--	1
2-Methylphenol	ND		ug/kg	190	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	--	1
2,4,5-Trichlorophenol	ND		ug/kg	190	--	1
Pyridine	ND		ug/kg	210	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01 Date Collected: 01/04/19 07:30

Client ID: BF-1 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		30-130
Phenol-d6	70		30-130
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	79		30-130
2,4,6-Tribromophenol	59		30-130
4-Terphenyl-d14	57		30-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 01/07/19 02:06
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	160	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	--	1
Hexachlorobenzene	ND		ug/kg	120	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	--	1
2-Chloronaphthalene	ND		ug/kg	200	--	1
1,2-Dichlorobenzene	ND		ug/kg	200	--	1
1,3-Dichlorobenzene	ND		ug/kg	200	--	1
1,4-Dichlorobenzene	ND		ug/kg	200	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	--	1
2,4-Dinitrotoluene	ND		ug/kg	200	--	1
2,6-Dinitrotoluene	ND		ug/kg	200	--	1
Azobenzene	ND		ug/kg	200	--	1
Fluoranthene	ND		ug/kg	120	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Hexachloroethane	ND		ug/kg	160	--	1
Isophorone	ND		ug/kg	180	--	1
Naphthalene	ND		ug/kg	200	--	1
Nitrobenzene	ND		ug/kg	180	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	--	1
Butyl benzyl phthalate	ND		ug/kg	200	--	1
Di-n-butylphthalate	ND		ug/kg	200	--	1
Di-n-octylphthalate	ND		ug/kg	200	--	1
Diethyl phthalate	ND		ug/kg	200	--	1
Dimethyl phthalate	ND		ug/kg	200	--	1
Benzo(a)anthracene	ND		ug/kg	120	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1900497

Project Number: 171521.52 **Report Date:** 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02 Date Collected: 01/04/19 08:30

Client ID: BF-2 Date Received: 01/04/19

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	ND		ug/kg	160	--	1
Benzo(b)fluoranthene	ND		ug/kg	120	--	1
Benzo(k)fluoranthene	ND		ug/kg	120	--	1
Chrysene	ND		ug/kg	120	--	1
Acenaphthylene	ND		ug/kg	160	--	1
Anthracene	ND		ug/kg	120	--	1
Benzo(ghi)perylene	ND		ug/kg	160	--	1
Fluorene	ND		ug/kg	200	--	1
Phenanthrene	ND		ug/kg	120	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	--	1
Pyrene	ND		ug/kg	120	--	1
Aniline	ND		ug/kg	240	--	1
4-Chloroaniline	ND		ug/kg	200	--	1
Dibenzofuran	ND		ug/kg	200	--	1
2-Methylnaphthalene	ND		ug/kg	240	--	1
Acetophenone	ND		ug/kg	200	--	1
2,4,6-Trichlorophenol	ND		ug/kg	120	--	1
2-Chlorophenol	ND		ug/kg	200	--	1
2,4-Dichlorophenol	ND		ug/kg	180	--	1
2,4-Dimethylphenol	ND		ug/kg	200	--	1
2-Nitrophenol	ND		ug/kg	440	--	1
4-Nitrophenol	ND		ug/kg	280	--	1
2,4-Dinitrophenol	ND		ug/kg	980	--	1
Pentachlorophenol	ND		ug/kg	410	--	1
Phenol	ND		ug/kg	200	--	1
2-Methylphenol	ND		ug/kg	200	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	--	1
2,4,5-Trichlorophenol	ND		ug/kg	200	--	1
Pyridine	ND		ug/kg	220	--	1

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		30-130
Phenol-d6	71		30-130
Nitrobenzene-d5	73		30-130
2-Fluorobiphenyl	80		30-130
2,4,6-Tribromophenol	60		30-130
4-Terphenyl-d14	64		30-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/06/19 23:59
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/05/19 07:52

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1195026-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	99	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/06/19 23:59
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/05/19 07:52

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1195026-1					
Benzo(b)fluoranthene	ND		ug/kg	99	--
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	99	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	99	--
2-Chlorophenol	ND		ug/kg	160	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	360	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	790	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 01/06/19 23:59
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 01/05/19 07:52

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1195026-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		30-130
Phenol-d6	80		30-130
Nitrobenzene-d5	77		30-130
2-Fluorobiphenyl	89		30-130
2,4,6-Tribromophenol	68		30-130
4-Terphenyl-d14	87		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1195026-2 WG1195026-3								
Acenaphthene	73		62		40-140	16		30
1,2,4-Trichlorobenzene	81		68		40-140	17		30
Hexachlorobenzene	75		64		40-140	16		30
Bis(2-chloroethyl)ether	67		56		40-140	18		30
2-Chloronaphthalene	87		73		40-140	18		30
1,2-Dichlorobenzene	72		60		40-140	18		30
1,3-Dichlorobenzene	72		59		40-140	20		30
1,4-Dichlorobenzene	73		60		40-140	20		30
3,3'-Dichlorobenzidine	59		62		40-140	5		30
2,4-Dinitrotoluene	87		73		40-140	18		30
2,6-Dinitrotoluene	98		81		40-140	19		30
Azobenzene	71		60		40-140	17		30
Fluoranthene	87		73		40-140	18		30
4-Bromophenyl phenyl ether	82		68		40-140	19		30
Bis(2-chloroisopropyl)ether	74		61		40-140	19		30
Bis(2-chloroethoxy)methane	75		62		40-140	19		30
Hexachlorobutadiene	79		64		40-140	21		30
Hexachloroethane	66		56		40-140	16		30
Isophorone	75		63		40-140	17		30
Naphthalene	76		63		40-140	19		30
Nitrobenzene	75		62		40-140	19		30
Bis(2-ethylhexyl)phthalate	90		74		40-140	20		30
Butyl benzyl phthalate	91		76		40-140	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1195026-2 WG1195026-3								
Di-n-butylphthalate	85		71		40-140	18		30
Di-n-octylphthalate	96		79		40-140	19		30
Diethyl phthalate	80		68		40-140	16		30
Dimethyl phthalate	94		78		40-140	19		30
Benzo(a)anthracene	80		67		40-140	18		30
Benzo(a)pyrene	90		76		40-140	17		30
Benzo(b)fluoranthene	91		77		40-140	17		30
Benzo(k)fluoranthene	85		71		40-140	18		30
Chrysene	84		69		40-140	20		30
Acenaphthylene	87		73		40-140	18		30
Anthracene	80		68		40-140	16		30
Benzo(ghi)perylene	81		69		40-140	16		30
Fluorene	77		66		40-140	15		30
Phenanthrene	78		66		40-140	17		30
Dibenzo(a,h)anthracene	85		72		40-140	17		30
Indeno(1,2,3-cd)pyrene	88		74		40-140	17		30
Pyrene	85		73		40-140	15		30
Aniline	53		54		40-140	2		30
4-Chloroaniline	40		58		40-140	**37**	Q	30
Dibenzofuran	75		63		40-140	17		30
2-Methylnaphthalene	80		67		40-140	18		30
Acetophenone	83		67		40-140	21		30
2,4,6-Trichlorophenol	98		83		30-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1195026-2 WG1195026-3								
2-Chlorophenol	81		66		30-130	20		30
2,4-Dichlorophenol	94		77		30-130	20		30
2,4-Dimethylphenol	95		79		30-130	18		30
2-Nitrophenol	91		74		30-130	21		30
4-Nitrophenol	84		64		30-130	27		30
2,4-Dinitrophenol	92		76		30-130	19		30
Pentachlorophenol	79		65		30-130	19		30
Phenol	82		68		30-130	19		30
2-Methylphenol	80		67		30-130	18		30
3-Methylphenol/4-Methylphenol	82		68		30-130	19		30
2,4,5-Trichlorophenol	101		85		30-130	17		30
Pyridine	45		38		30-130	17		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		66		30-130
Phenol-d6	79		66		30-130
Nitrobenzene-d5	76		64		30-130
2-Fluorobiphenyl	86		72		30-130
2,4,6-Tribromophenol	77		65		30-130
4-Terphenyl-d14	79		67		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/06/19 14:21
Analyst: DG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 09:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	37000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	109		40-140

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 01/06/19 14:53
Analyst: DG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 09:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	ND		ug/kg	39000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	97		40-140

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 01/06/19 10:31
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 01/05/19 09:01

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1195047-1					
TPH	ND		ug/kg	31300	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1195047-2								
TPH	90		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	89				40-140

PCBS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/06/19 18:22
Analyst: AWS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 00:01
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	--	1	A
Aroclor 1221	ND		ug/kg	36.9	--	1	A
Aroclor 1232	ND		ug/kg	36.9	--	1	A
Aroclor 1242	ND		ug/kg	36.9	--	1	A
Aroclor 1248	ND		ug/kg	36.9	--	1	A
Aroclor 1254	ND		ug/kg	36.9	--	1	B
Aroclor 1260	ND		ug/kg	36.9	--	1	B
Aroclor 1262	ND		ug/kg	36.9	--	1	A
Aroclor 1268	ND		ug/kg	36.9	--	1	A
PCBs, Total	ND		ug/kg	36.9	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 01/06/19 18:35
Analyst: AWS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 00:01
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	--	1	A
Aroclor 1221	ND		ug/kg	39.9	--	1	A
Aroclor 1232	ND		ug/kg	39.9	--	1	A
Aroclor 1242	ND		ug/kg	39.9	--	1	A
Aroclor 1248	ND		ug/kg	39.9	--	1	A
Aroclor 1254	ND		ug/kg	39.9	--	1	A
Aroclor 1260	ND		ug/kg	39.9	--	1	A
Aroclor 1262	ND		ug/kg	39.9	--	1	A
Aroclor 1268	ND		ug/kg	39.9	--	1	A
PCBs, Total	ND		ug/kg	39.9	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 01/06/19 19:00
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 01/05/19 00:01
Cleanup Method: EPA 3665A
Cleanup Date: 01/05/19
Cleanup Method: EPA 3660B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG1194977-1						
Aroclor 1016	ND		ug/kg	32.1	--	A
Aroclor 1221	ND		ug/kg	32.1	--	A
Aroclor 1232	ND		ug/kg	32.1	--	A
Aroclor 1242	ND		ug/kg	32.1	--	A
Aroclor 1248	ND		ug/kg	32.1	--	A
Aroclor 1254	ND		ug/kg	32.1	--	A
Aroclor 1260	ND		ug/kg	32.1	--	A
Aroclor 1262	ND		ug/kg	32.1	--	A
Aroclor 1268	ND		ug/kg	32.1	--	A
PCBs, Total	ND		ug/kg	32.1	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	62		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02 Batch: WG1194977-2 WG1194977-3									
Aroclor 1016	73		70		40-140	4		30	A
Aroclor 1260	60		59		40-140	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		76		30-150	B
Decachlorobiphenyl	78		75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		71		30-150	A
Decachlorobiphenyl	63		62		30-150	A

PESTICIDES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/06/19 20:02
Analyst: SL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 00:59
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	--	1	A
Lindane	ND		ug/kg	0.599	--	1	A
Alpha-BHC	ND		ug/kg	0.748	--	1	A
Beta-BHC	ND		ug/kg	1.80	--	1	A
Heptachlor	ND		ug/kg	0.898	--	1	A
Aldrin	ND		ug/kg	1.80	--	1	A
Heptachlor epoxide	ND		ug/kg	3.37	--	1	A
Endrin	ND		ug/kg	0.748	--	1	A
Endrin ketone	ND		ug/kg	1.80	--	1	A
Dieldrin	ND		ug/kg	1.12	--	1	A
4,4'-DDE	ND		ug/kg	1.80	--	1	A
4,4'-DDD	ND		ug/kg	1.80	--	1	A
4,4'-DDT	ND		ug/kg	3.37	--	1	A
Endosulfan I	ND		ug/kg	1.80	--	1	A
Endosulfan II	ND		ug/kg	1.80	--	1	A
Endosulfan sulfate	ND		ug/kg	0.748	--	1	A
Methoxychlor	ND		ug/kg	3.37	--	1	A
Chlordane	ND		ug/kg	14.6	--	1	A
Hexachlorobenzene	ND		ug/kg	1.80	--	1	A
Toxaphene	ND		ug/kg	33.7	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/08/19 12:53
Analyst: DGM
Percent Solids: 86%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3800	--	1	B
MCPA	ND		ug/kg	3800	--	1	B
Dalapon	ND		ug/kg	38	--	1	B
Dicamba	ND		ug/kg	38	--	1	B
Dichloroprop	ND		ug/kg	38	--	1	B
2,4-D	ND		ug/kg	38	--	1	B
2,4-DB	ND		ug/kg	38	--	1	B
2,4,5-T	ND		ug/kg	38	--	1	B
2,4,5-TP (Silvex)	ND		ug/kg	38	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	131		30-150	A
DCAA	105		30-150	B

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 01/06/19 20:14
Analyst: SL
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/05/19 00:59
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.91	--	1	A
Lindane	ND		ug/kg	0.636	--	1	A
Alpha-BHC	ND		ug/kg	0.796	--	1	A
Beta-BHC	ND		ug/kg	1.91	--	1	A
Heptachlor	ND		ug/kg	0.955	--	1	A
Aldrin	ND		ug/kg	1.91	--	1	A
Heptachlor epoxide	ND		ug/kg	3.58	--	1	A
Endrin	ND		ug/kg	0.796	--	1	A
Endrin ketone	ND		ug/kg	1.91	--	1	A
Dieldrin	ND		ug/kg	1.19	--	1	A
4,4'-DDE	ND		ug/kg	1.91	--	1	A
4,4'-DDD	ND		ug/kg	1.91	--	1	A
4,4'-DDT	ND		ug/kg	3.58	--	1	B
Endosulfan I	ND		ug/kg	1.91	--	1	A
Endosulfan II	ND		ug/kg	1.91	--	1	A
Endosulfan sulfate	ND		ug/kg	0.796	--	1	A
Methoxychlor	ND		ug/kg	3.58	--	1	A
Chlordane	ND		ug/kg	15.5	--	1	A
Hexachlorobenzene	ND		ug/kg	1.91	--	1	A
Toxaphene	ND		ug/kg	35.8	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 01/08/19 13:12
Analyst: DGM
Percent Solids: 81%
Methylation Date: 01/07/19 19:13

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	4000	--	1	B
MCPA	ND		ug/kg	4000	--	1	B
Dalapon	ND		ug/kg	40	--	1	B
Dicamba	ND		ug/kg	40	--	1	B
Dichloroprop	ND		ug/kg	40	--	1	B
2,4-D	ND		ug/kg	40	--	1	B
2,4-DB	ND		ug/kg	40	--	1	B
2,4,5-T	ND		ug/kg	40	--	1	B
2,4,5-TP (Silvex)	ND		ug/kg	40	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	97		30-150	B

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 01/05/19 11:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 01/04/19 05:19
Cleanup Method: EPA 3620B
Cleanup Date: 01/05/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG1194674-1						
Delta-BHC	ND		ug/kg	1.52	--	A
Lindane	ND		ug/kg	0.506	--	A
Alpha-BHC	ND		ug/kg	0.633	--	A
Beta-BHC	ND		ug/kg	1.52	--	A
Heptachlor	ND		ug/kg	0.759	--	A
Aldrin	ND		ug/kg	1.52	--	A
Heptachlor epoxide	ND		ug/kg	2.85	--	A
Endrin	ND		ug/kg	0.633	--	A
Endrin ketone	ND		ug/kg	1.52	--	A
Dieldrin	ND		ug/kg	0.949	--	A
4,4'-DDE	ND		ug/kg	1.52	--	A
4,4'-DDD	ND		ug/kg	1.52	--	A
4,4'-DDT	ND		ug/kg	2.85	--	A
Endosulfan I	ND		ug/kg	1.52	--	A
Endosulfan II	ND		ug/kg	1.52	--	A
Endosulfan sulfate	ND		ug/kg	0.633	--	A
Methoxychlor	ND		ug/kg	2.85	--	A
Chlordane	ND		ug/kg	12.3	--	A
Hexachlorobenzene	ND		ug/kg	1.52	--	A
Toxaphene	ND		ug/kg	28.5	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 01/06/19 20:06
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 01/05/19 00:59

Methylation Date: 01/05/19 20:45

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG1195078-1						
MCPP	ND		ug/kg	3300	--	B
MCPA	ND		ug/kg	3300	--	B
Dalapon	ND		ug/kg	33	--	B
Dicamba	ND		ug/kg	33	--	B
Dichloroprop	ND		ug/kg	33	--	B
2,4-D	ND		ug/kg	33	--	B
2,4-DB	ND		ug/kg	33	--	B
2,4,5-T	ND		ug/kg	33	--	B
2,4,5-TP (Silvex)	ND		ug/kg	33	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	84		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1194674-2 WG1194674-3									
Delta-BHC	76		85		40-140	11		30	A
Lindane	82		94		40-140	14		30	A
Alpha-BHC	90		99		40-140	10		30	A
Beta-BHC	72		81		40-140	12		30	A
Heptachlor	83		94		40-140	12		30	A
Aldrin	82		85		40-140	4		30	A
Heptachlor epoxide	80		88		40-140	10		30	A
Endrin	86		88		40-140	2		30	A
Endrin ketone	78		80		40-140	3		30	A
Dieldrin	80		86		40-140	7		30	A
4,4'-DDE	77		79		40-140	3		30	A
4,4'-DDD	78		85		40-140	9		30	A
4,4'-DDT	76		82		40-140	8		30	A
Endosulfan I	76		80		40-140	5		30	A
Endosulfan II	77		84		40-140	9		30	A
Endosulfan sulfate	56		56		40-140	0		30	A
Methoxychlor	69		76		40-140	10		30	A
Hexachlorobenzene	67		74		40-140	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1194674-2 WG1194674-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		74		30-150	B
Decachlorobiphenyl	78		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		77		30-150	A
Decachlorobiphenyl	72		74		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1194674-4 WG1194674-5									
Toxaphene	108		122		40-140	12		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		94		30-150	B
Decachlorobiphenyl	83		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		87		30-150	A
Decachlorobiphenyl	71		69		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-02 Batch: WG1195078-2 WG1195078-3									
MCPP	92		92		40-140	0		30	B
MCPA	90		92		40-140	2		30	B
Dalapon	66		68		40-140	3		30	B
Dicamba	89		92		40-140	3		30	B
Dichloroprop	92		96		40-140	4		30	B
2,4-D	86		88		40-140	2		30	B
2,4-DB	84		88		40-140	5		30	B
2,4,5-T	95		97		40-140	2		30	B
2,4,5-TP (Silvex)	83		86		40-140	4		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		96		30-150	A
DCAA	87		91		30-150	B

METALS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	3.40		mg/kg	0.458	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Barium, Total	13.8		mg/kg	0.458	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.458	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Chromium, Total	5.19		mg/kg	0.458	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Lead, Total	16.3		mg/kg	2.29	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Mercury, Total	ND		mg/kg	0.073	--	1	01/09/19 07:30	01/09/19 19:41	EPA 7471B	97,7471B	EA
Selenium, Total	ND		mg/kg	2.29	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.458	--	1	01/09/19 13:00	01/09/19 17:12	EPA 3050B	97,6010D	LC

Project Name: WYNN BOSTON HARBOR
Lab Number: L1900497
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	8.37		mg/kg	0.477	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Barium, Total	83.7		mg/kg	0.477	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Cadmium, Total	0.978		mg/kg	0.477	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Chromium, Total	41.8		mg/kg	0.477	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Lead, Total	11.2		mg/kg	2.38	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Mercury, Total	ND		mg/kg	0.077	--	1	01/09/19 07:30	01/09/19 19:43	EPA 7471B	97,7471B	EA
Selenium, Total	ND		mg/kg	2.38	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC
Silver, Total	ND		mg/kg	0.477	--	1	01/09/19 13:00	01/09/19 17:17	EPA 3050B	97,6010D	LC

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1195924-1										
Mercury, Total	ND		mg/kg	0.083	--	1	01/09/19 07:30	01/09/19 19:35	97,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1196065-1										
Arsenic, Total	ND		mg/kg	0.400	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Barium, Total	ND		mg/kg	0.400	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Chromium, Total	ND		mg/kg	0.400	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Lead, Total	ND		mg/kg	2.00	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Selenium, Total	ND		mg/kg	2.00	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC
Silver, Total	ND		mg/kg	0.400	--	1	01/09/19 13:00	01/09/19 16:50	97,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1195924-2 WG1195924-3 SRM Lot Number: D101-540								
Mercury, Total	80		80		65-135	0		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1196065-2 WG1196065-3 SRM Lot Number: D101-540								
Arsenic, Total	101		108		83-117	7		30
Barium, Total	92		98		83-118	6		30
Cadmium, Total	106		108		83-117	2		30
Chromium, Total	95		101		81-118	6		30
Lead, Total	98		104		83-117	6		30
Selenium, Total	106		100		79-121	6		30
Silver, Total	94		104		80-120	10		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/07/19 04:24	1,1030	GD

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	01/07/19 04:24	1,1030	GD

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-01
Client ID: BF-1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/04/19 07:30
Date Received: 01/04/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	18		umhos/cm	10	--	1	-	01/05/19 03:06	1,9050A	MA
Solids, Total	85.5		%	0.100	NA	1	-	01/05/19 09:54	121,2540G	RI
pH (H)	7.6		SU	-	NA	1	-	01/05/19 01:44	1,9045D	JW
Flash Point	>150		deg F	70	NA	1	-	01/06/19 12:15	1,1010A	AG
Cyanide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:35	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:26	125,7.3	KF

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900497-02
Client ID: BF-2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/04/19 08:30
Date Received: 01/04/19
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	25		umhos/cm	10	--	1	-	01/05/19 03:06	1,9050A	MA
Solids, Total	81.4		%	0.100	NA	1	-	01/05/19 09:54	121,2540G	RI
pH (H)	6.8		SU	-	NA	1	-	01/05/19 01:44	1,9045D	JW
Flash Point	>150		deg F	70	NA	1	-	01/06/19 12:15	1,1010A	AG
Cyanide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:35	125,7.3	KF
Sulfide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:26	125,7.3	KF

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1900497
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1195209-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:25	125,7.3	KF
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1195210-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	01/06/19 17:11	01/06/19 18:34	125,7.3	KF

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1900497

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1194988-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1194999-1								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1195183-3								
Flash Point	101		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1195209-2								
Sulfide, Reactive	91		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1195210-2								
Cyanide, Reactive	57		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1194988-2 QC Sample: L1900497-01 Client ID: BF-1						
pH (H)	7.6	7.6	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1194999-2 QC Sample: L1900497-01 Client ID: BF-1						
Specific Conductance @ 25 C	18	18	umhos/cm	0		20

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900497-01A	Vial MeOH preserved	A	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L1900497-01B	Vial water preserved	A	NA		4.3	Y	Absent	04-JAN-19 22:42	MCP-8260HLW-10(14)
L1900497-01C	Vial water preserved	A	NA		4.3	Y	Absent	04-JAN-19 22:42	MCP-8260HLW-10(14)
L1900497-01D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1900497-01E	Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L1900497-01F	Glass 250ml/8oz unpreserved	A	NA		4.3	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900497-01G	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900497-02A	Vial MeOH preserved	A	NA		4.3	Y	Absent		MCP-8260HLW-10(14)
L1900497-02B	Vial water preserved	A	NA		4.3	Y	Absent	04-JAN-19 22:42	MCP-8260HLW-10(14)
L1900497-02C	Vial water preserved	A	NA		4.3	Y	Absent	04-JAN-19 22:42	MCP-8260HLW-10(14)
L1900497-02D	Plastic 2oz unpreserved for TS	A	NA		4.3	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1900497-02E	Glass 60mL/2oz unpreserved	A	NA		4.3	Y	Absent		MCP-8260HLW-10(14)

*Values in parentheses indicate holding time in days

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1900497
Report Date: 01/10/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900497-02F	Glass 250ml/8oz unpreserved	A	NA		4.3	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1900497-02G	Glass 500ml/16oz unpreserved	A	NA		4.3	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),TS(7),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1900497
Project Number:	171521.52	**Report Date:**	01/10/19

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1900497
Project Number:	171521.52	**Report Date:**	01/10/19

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1900497
Project Number:	171521.52	**Report Date:**	01/10/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 624/624.1: 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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; 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, SM4500Cl-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**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, 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: Al, 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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

CHAIN OF CUSTODY

PAGE OF

ALPHA ANALYTICAL
World Class Chemistry

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 1/4/19

ALPHA Job #: L1900497

Project Information

Project Name: Wynn Boston Harbor

Project Location: 1 Horizon Way, Everett MA

Project #: 01.0171521.52

Project Manager: Neal Carey

ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: 4 day RUSH Time: —

Client Information

Client GZA

Address: 249 Vanderbilt Ave

Norwood, MA

Phone: (781) 278-3700

Fax: (781) 278-5752

Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com

TCLP20x rule applies for MCP-14 metals

Run MCP 14 metals but report only RCRA metals unless authorized otherwise by Don Scanlon, GZA

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
00497-01	BF-1	1/4/19	0730	soil	EN	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐		
-02	BF-2	1/4/19	0830	soil	EN	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
Container Type						-	-	-	-	-	-	-	-	-	-	-	-		
Preservative						-	-	-	-	-	-	-	-	-	-	-	-		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Eric Nygaard	1/4/19 13:40	[signature] AAL	1/4/19 1340
[signature]	1/4/19 1800	[signature] 1/4/19	1800

FORM NO: 01-01 (rev. 5-JAN-12)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Method Blank Summary
Form 4
VOLATILES

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900497
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Lab Sample ID	: WG1195494-5	**Lab File ID**	: V17190107A04
Instrument ID	: VOA117		
Matrix	: SOIL	**Analysis Date**	: 01/07/19 16:32

Client Sample No.	Lab Sample ID	Analysis Date
WG1195494-3LCS	WG1195494-3	01/07/19 15:14
WG1195494-4LCSD	WG1195494-4	01/07/19 15:40
BF-1	L1900497-01	01/07/19 19:08
BF-2	L1900497-02	01/07/19 19:34

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1900497		
Project Name	: WYNN BOSTON HARBOR	Project Number	: 171521.52		
Instrument ID	: VOA117	Calibration Date	: 01/07/19 15:14		
Lab File ID	: V17190107A01	Init. Calib. Date(s)	: 01/04/19	01/05/19	
Sample No	: WG1195494-2	Init. Calib. Times	: 21:09	00:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	106	0
Dichlorodifluoromethane	0.263	0.234	-	11	20	95	0
Chloromethane	0.234	0.237	-	-1.3	20	112	0
Vinyl chloride	0.296	0.267	-	9.8	20	96	0
Bromomethane	0.21	0.189	-	10	20	104	0
Chloroethane	0.191	0.177	-	7.3	20	99	0
Trichlorofluoromethane	0.496	0.451	-	9.1	20	97	0
Ethyl ether	0.121	0.113	-	6.6	20	100	0
1,1-Dichloroethene	0.222	0.202	-	9	20	98	0
Carbon disulfide	0.65	0.582	-	10.5	20	100	0
Freon-113	0.223	0.206	-	7.6	20	98	0
Acrolein	0.018	0.019*	-	-5.6	20	111	0
Methylene chloride	0.247	0.216	-	12.6	20	99	0
Acetone	20	21.952	-	-9.8	20	113	0
trans-1,2-Dichloroethene	0.254	0.231	-	9.1	20	100	0
Methyl acetate	0.079	0.073*	-	7.6	20	101	0
Methyl tert-butyl ether	0.512	0.481	-	6.1	20	102	0
tert-Butyl alcohol	0.015	0.013*	-	13.3	20	92	0
Diisopropyl ether	0.591	0.549	-	7.1	20	100	0
1,1-Dichloroethane	0.422	0.385	-	8.8	20	99	0
Halothane	0.191	0.176	-	7.9	20	99	0
Acrylonitrile	0.037	0.037*	-	0	20	104	0
Ethyl tert-butyl ether	0.613	0.571	-	6.9	20	101	0
Vinyl acetate	0.345	0.327	-	5.2	20	106	0
cis-1,2-Dichloroethene	0.268	0.249	-	7.1	20	101	0
2,2-Dichloropropane	0.38	0.357	-	6.1	20	102	0
Bromochloromethane	0.11	0.105	-	4.5	20	99	0
Cyclohexane	0.352	0.321	-	8.8	20	98	0
Chloroform	0.441	0.415	-	5.9	20	100	0
Ethyl acetate	0.118	0.115	-	2.5	20	103	0
Carbon tetrachloride	0.372	0.34	-	8.6	20	98	0
Tetrahydrofuran	20	20.6	-	-3	20	111	-.01
Dibromofluoromethane	0.259	0.266	-	-2.7	20	109	0
1,1,1-Trichloroethane	0.406	0.371	-	8.6	20	98	0
2-Butanone	20	20.074	-	-0.4	20	104	0
1,1-Dichloropropene	0.313	0.29	-	7.3	20	99	0
Benzene	0.95	0.868	-	8.6	20	99	0
tert-Amyl methyl ether	0.57	0.53	-	7	20	99	0
1,2-Dichloroethane-d4	0.235	0.229	-	2.6	20	105	0
1,2-Dichloroethane	0.262	0.241	-	8	20	100	0
Methyl cyclohexane	0.413	0.37	-	10.4	20	98	0
Trichloroethene	0.262	0.238	-	9.2	20	98	0
Dibromomethane	0.123	0.115	-	6.5	20	101	0
1,2-Dichloropropane	0.221	0.203	-	8.1	20	98	0
2-Chloroethyl vinyl ether	0.096	0.097	-	-1	20	106	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.		Lab Number	: L1900497	
Project Name	: WYNN BOSTON HARBOR		Project Number	: 171521.52	
Instrument ID	: VOA117		Calibration Date	: 01/07/19 15:14	
Lab File ID	: V17190107A01		Init. Calib. Date(s)	: 01/04/19	01/05/19
Sample No	: WG1195494-2		Init. Calib. Times	: 21:09	00:37
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.323	0.3	-	7.1	20	100	0
1,4-Dioxane	0.00159	0.00143*	-	10.1	20	106	0
cis-1,3-Dichloropropene	0.365	0.339	-	7.1	20	99	0
Chlorobenzene-d5	1	1	-	0	20	105	0
Toluene-d8	1.282	1.282	-	0	20	104	0
Toluene	0.779	0.717	-	8	20	99	0
4-Methyl-2-pentanone	20	18.771	-	6.1	20	100	0
Tetrachloroethene	0.342	0.323	-	5.6	20	100	0
trans-1,3-Dichloropropene	0.387	0.366	-	5.4	20	101	0
Ethyl methacrylate	0.27	0.252	-	6.7	20	97	0
1,1,2-Trichloroethane	0.182	0.171	-	6	20	99	0
Chlorodibromomethane	0.286	0.271	-	5.2	20	100	0
1,3-Dichloropropane	0.366	0.344	-	6	20	99	0
1,2-Dibromoethane	0.215	0.202	-	6	20	100	0
2-Hexanone	20	18.954	-	5.2	20	97	0
Chlorobenzene	0.89	0.808	-	9.2	20	99	0
Ethylbenzene	1.513	1.39	-	8.1	20	98	0
1,1,1,2-Tetrachloroethane	0.322	0.294	-	8.7	20	96	0
p/m Xylene	0.594	0.545	-	8.2	20	99	0
o Xylene	0.576	0.523	-	9.2	20	98	0
Styrene	0.925	0.84	-	9.2	20	97	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	105	0
Bromoform	0.319	0.307	-	3.8	20	97	0
Isopropylbenzene	2.908	2.671	-	8.1	20	98	0
4-Bromofluorobenzene	0.946	0.935	-	1.2	20	104	0
Bromobenzene	0.687	0.636	-	7.4	20	97	0
n-Propylbenzene	3.444	3.135	-	9	20	98	0
1,4-Dichlorobutane	0.618	0.562	-	9.1	20	96	0
1,1,2,2-Tetrachloroethane	0.524	0.471	-	10.1	20	93	0
4-Ethyltoluene	2.877	2.656	-	7.7	20	98	0
2-Chlorotoluene	2.026	1.835	-	9.4	20	96	0
1,3,5-Trimethylbenzene	2.454	2.244	-	8.6	20	97	0
1,2,3-Trichloropropane	0.384	0.36	-	6.3	20	96	0
trans-1,4-Dichloro-2-buten	0.125	0.118	-	5.6	20	97	0
4-Chlorotoluene	2.062	1.883	-	8.7	20	97	0
tert-Butylbenzene	2.13	1.93	-	9.4	20	96	0
1,2,4-Trimethylbenzene	2.443	2.237	-	8.4	20	96	0
sec-Butylbenzene	3.19	2.908	-	8.8	20	97	0
p-Isopropyltoluene	2.702	2.491	-	7.8	20	98	0
1,3-Dichlorobenzene	1.375	1.265	-	8	20	96	0
1,4-Dichlorobenzene	1.384	1.276	-	7.8	20	96	0
p-Diethylbenzene	1.615	1.506	-	6.7	20	99	0
n-Butylbenzene	2.534	2.342	-	7.6	20	98	0
1,2-Dichlorobenzene	1.242	1.126	-	9.3	20	93	0
1,2,4,5-Tetramethylbenzene	2.478	2.307	-	6.9	20	96	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900497		
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52		
Instrument ID	: VOA117	**Calibration Date**	: 01/07/19 15:14		
Lab File ID	: V17190107A01	**Init. Calib. Date(s)**	: 01/04/19	01/05/19	
Sample No	: WG1195494-2	**Init. Calib. Times**	: 21:09	00:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.076	0.072	-	5.3	20	93	0
1,3,5-Trichlorobenzene	1.002	0.948	-	5.4	20	99	0
Hexachlorobutadiene	0.477	0.453	-	5	20	101	0
1,2,4-Trichlorobenzene	0.86	0.82	-	4.7	20	97	0
Naphthalene	1.664	1.525	-	8.4	20	92	0
1,2,3-Trichlorobenzene	0.761	0.717	-	5.8	20	96	0

* Value outside of QC limits.

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900497
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST20	**Analysis Date**	: 01/05/19 10:44
PEM Standard	: R1147417-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	897052.51912	1149111.07091
Endrin	195874084.61779	89260082.68884
4,4'-DDD	1389402.60155	171168.8764
4,4'-DDT	344784827.63593	158628539.43121
Endrin Aldehyde	575922.19977	1062852.11004
Endrin Ketone	1950611.79634	798218.98613

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.27	2.04
DDT	0.659	0.825

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900497
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 01/05/19 11:01
PEM Standard	: R1147387-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1247544	872431.15959
Endrin	231296790.58045	153747297.15309
4,4'-DDD	3276956.57129	1910610.02658
4,4'-DDT	364193316.222	307978003.41741
Endrin Aldehyde	1107602.32999	724097.03541
Endrin Ketone	2353053.46758	2568886.27487

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.47	2.10
DDT	1.23	0.896

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1900497
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 01/06/19 12:42
PEM Standard	: R1147431-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1107522.99617	903847.74727
Endrin	192384479.08257	131403151.10766
4,4'-DDD	1781569.74883	1402123.13947
4,4'-DDT	296429147.85675	241131816.5504
Endrin Aldehyde	279049.97859	1448707.16934
Endrin Ketone	1844272.33679	1922229.37067

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.09	2.50
DDT	0.965	0.947

ANALYTICAL REPORT

Lab Number:	L1900765
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Matthew Smith
Phone:	(781) 278-5830
Project Name:	WYNN EVERETT
Project Number:	171521.52
Report Date:	01/10/19

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

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900765
Report Date: 01/10/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1900765-01	BF-6	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 12:00	01/03/19
L1900765-02	BF-5	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 12:30	01/03/19
L1900765-03	BF-4	SOIL	1 HORIZON WAY, EVERETT, MA	01/03/19 13:00	01/03/19

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900765
Report Date: 01/10/19

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.

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.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 01/10/19

METALS

Project Name: WYNN EVERETT
Lab Number: L1900765
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900765-01
Client ID: BF-6
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 12:00
Date Received: 01/03/19
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/08/19 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	--	1	01/10/19 07:08	01/10/19 10:47	EPA 3015	1,6010D	LC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900765
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900765-02
Client ID: BF-5
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 12:30
Date Received: 01/03/19
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/08/19 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	--	1	01/10/19 07:08	01/10/19 11:04	EPA 3015	1,6010D	LC

Project Name: WYNN EVERETT
Lab Number: L1900765
Project Number: 171521.52
Report Date: 01/10/19

SAMPLE RESULTS

Lab ID: L1900765-03
Client ID: BF-4
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 01/03/19 13:00
Date Received: 01/03/19
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 01/08/19 19:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	--	1	01/10/19 07:08	01/10/19 11:09	EPA 3015	1,6010D	LC

Project Name: WYNN EVERETT
Project Number: 171521.52
Lab Number: L1900765
Report Date: 01/10/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-03 Batch: WG1196281-1										
Lead, TCLP	ND		mg/l	0.500	--	1	01/10/19 07:08	01/10/19 10:14	1,6010D	LC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 01/08/19 15:50

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900765

Report Date: 01/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 Batch: WG1196281-2								
Lead, TCLP	90		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900765
Report Date: 01/10/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1196281-3 QC Sample: L1900415-01 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.00	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: WYNN EVERETT

Project Number: 171521.52

Lab Number: L1900765

Report Date: 01/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1196281-4 QC Sample: L1900415-01 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN EVERETT
Project Number: 171521.52

Lab Number: L1900765
Report Date: 01/10/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1900765-01A	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		-
L1900765-01B	Glass 60ml unpreserved split	NA	NA			Y	Absent		-
L1900765-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1900765-01X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L1900765-02A	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		-
L1900765-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1900765-02X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L1900765-03A	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		-
L1900765-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1900765-03X9	Tumble Vessel	A	NA		3.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN EVERETT	**Lab Number:**	L1900765
Project Number:	171521.52	**Report Date:**	01/10/19

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1900765
Project Number:	171521.52	**Report Date:**	01/10/19

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN EVERETT	**Lab Number:**	L1900765
Project Number:	171521.52	**Report Date:**	01/10/19

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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 624/624.1: 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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; 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, SM4500Cl-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**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, 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: Al, 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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L1900765 EO 1/8/19

CHAIN OF COUSTODY

PAGE OF

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client GZA
Address: 249 Vanderbilt Ave
Norwood, MA
Phone: (781) 278-3700
Fax: (781) 278-5752
Email Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: Wynn Boston Harbor
Project Location: 1 Horizon Way, Everett MA
Project #: 01.0171521.52
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: 4 day RUSH Time: —

Other Project Specific Requirements/Comments/Detection Limits:
Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP20x rule applies for MCP-14 metals

Date Rec'd in Lab: ~~1/3/18~~ 1/3/19

ALPHA Job #: ~~L1900350~~

Report Information Data Deliverables
☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information
☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

00765

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)		TCLP-Pb				Sample Specific Comments	TOTAL # BOTTLES
~~00350~~-01	BF-6	1/3/19	12:00	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐		
02	BF-5	1/3/19	12:30	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐		
03	BF-4	1/3/19	13:00	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐		
~~04~~	BF-3	1/3/19	13:30	Soil	EN	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	-	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Eric Nygaard	1/3/19 15:25	[illegible] AAL	1/3/19 15:25
[illegible] AAL	1/3/19 17:30	[illegible]	1/3/19 1730

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1834152
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Neal Carey
Phone:	(781) 278-5831
Project Name:	WYNN BOSTON HARBOR
Project Number:	171521.52
Report Date:	09/06/18

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

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1834152-01	ELECTRIC SHACK RAMP 1	SOIL	1 HORIZON WAY, EVERETT, MA	08/29/18 12:45	08/29/18
L1834152-02	ELECTRIC SHACK RAMP 2	SOIL	1 HORIZON WAY, EVERETT, MA	08/29/18 13:00	08/29/18

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

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 affirmative 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	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
E b.	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 response 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)?	NO
H	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)?	YES

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 BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

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 BOSTON HARBOR	**Lab Number:**	L1834152
Project Number:	171521.52	**Report Date:**	09/06/18

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.

Volatile Organics

In reference to question H:

L1834152-01: The surrogate recovery for 1,2-dichloroethane-d4 (136%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

The initial calibration, associated with L1834152-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.074) and 4-methyl-2-pentanone (0.054), as well as the average response factor for 2-butanone and 4-methyl-2-pentanone.

The continuing calibration standard, associated with L1834152-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Pesticides

L1834152-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

In reference to question G:

L1834152-02: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L1834152-02: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 09/06/18

ORGANICS

VOLATILES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/01/18 15:21
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	--	1
1,1-Dichloroethane	ND		ug/kg	0.83	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.83	--	1
1,2-Dichloropropane	ND		ug/kg	0.83	--	1
Dibromochloromethane	ND		ug/kg	0.83	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	--	1
Tetrachloroethene	ND		ug/kg	0.41	--	1
Chlorobenzene	ND		ug/kg	0.41	--	1
Trichlorofluoromethane	ND		ug/kg	3.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.83	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	--	1
Bromodichloromethane	ND		ug/kg	0.41	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.41	--	1
1,1-Dichloropropene	ND		ug/kg	0.41	--	1
Bromoform	ND		ug/kg	3.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	--	1
Benzene	ND		ug/kg	0.41	--	1
Toluene	ND		ug/kg	0.83	--	1
Ethylbenzene	ND		ug/kg	0.83	--	1
Chloromethane	ND		ug/kg	3.3	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.83	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.83	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01 Date Collected: 08/29/18 12:45

Client ID: ELECTRIC SHACK RAMP 1 Date Received: 08/29/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.41	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.83	--	1
Xylenes, Total	ND		ug/kg	0.83	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.83	--	1
Dichlorodifluoromethane	ND		ug/kg	8.3	--	1
Acetone	14		ug/kg	8.3	--	1
Carbon disulfide	ND		ug/kg	8.3	--	1
Methyl ethyl ketone	ND		ug/kg	8.3	--	1
Methyl isobutyl ketone	ND		ug/kg	8.3	--	1
2-Hexanone	ND		ug/kg	8.3	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.83	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.41	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.83	--	1
sec-Butylbenzene	ND		ug/kg	0.83	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	--	1
Hexachlorobutadiene	ND		ug/kg	3.3	--	1
Isopropylbenzene	ND		ug/kg	0.83	--	1
p-Isopropyltoluene	ND		ug/kg	0.83	--	1
Naphthalene	ND		ug/kg	3.3	--	1
n-Propylbenzene	ND		ug/kg	0.83	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01 Date Collected: 08/29/18 12:45

Client ID: ELECTRIC SHACK RAMP 1 Date Received: 08/29/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	83	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**136**	Q	70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 09/01/18 15:47
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.86	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.86	--	1
1,2-Dichloropropane	ND		ug/kg	0.86	--	1
Dibromochloromethane	ND		ug/kg	0.86	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	--	1
Tetrachloroethene	ND		ug/kg	0.43	--	1
Chlorobenzene	ND		ug/kg	0.43	--	1
Trichlorofluoromethane	ND		ug/kg	3.4	--	1
1,2-Dichloroethane	ND		ug/kg	0.86	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	--	1
Bromodichloromethane	ND		ug/kg	0.43	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	--	1
1,1-Dichloropropene	ND		ug/kg	0.43	--	1
Bromoform	ND		ug/kg	3.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	--	1
Benzene	ND		ug/kg	0.43	--	1
Toluene	ND		ug/kg	0.86	--	1
Ethylbenzene	ND		ug/kg	0.86	--	1
Chloromethane	ND		ug/kg	3.4	--	1
Bromomethane	ND		ug/kg	1.7	--	1
Vinyl chloride	ND		ug/kg	0.86	--	1
Chloroethane	ND		ug/kg	1.7	--	1
1,1-Dichloroethene	ND		ug/kg	0.86	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02 Date Collected: 08/29/18 13:00

Client ID: ELECTRIC SHACK RAMP 2 Date Received: 08/29/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.43	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	--	1
Methyl tert butyl ether	ND		ug/kg	1.7	--	1
p/m-Xylene	ND		ug/kg	1.7	--	1
o-Xylene	ND		ug/kg	0.86	--	1
Xylenes, Total	ND		ug/kg	0.86	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.86	--	1
Dibromomethane	ND		ug/kg	1.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	--	1
Styrene	ND		ug/kg	0.86	--	1
Dichlorodifluoromethane	ND		ug/kg	8.6	--	1
Acetone	ND		ug/kg	8.6	--	1
Carbon disulfide	ND		ug/kg	8.6	--	1
Methyl ethyl ketone	ND		ug/kg	8.6	--	1
Methyl isobutyl ketone	ND		ug/kg	8.6	--	1
2-Hexanone	ND		ug/kg	8.6	--	1
Bromochloromethane	ND		ug/kg	1.7	--	1
Tetrahydrofuran	ND		ug/kg	3.4	--	1
2,2-Dichloropropane	ND		ug/kg	1.7	--	1
1,2-Dibromoethane	ND		ug/kg	0.86	--	1
1,3-Dichloropropane	ND		ug/kg	1.7	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	--	1
Bromobenzene	ND		ug/kg	1.7	--	1
n-Butylbenzene	ND		ug/kg	0.86	--	1
sec-Butylbenzene	ND		ug/kg	0.86	--	1
tert-Butylbenzene	ND		ug/kg	1.7	--	1
o-Chlorotoluene	ND		ug/kg	1.7	--	1
p-Chlorotoluene	ND		ug/kg	1.7	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.4	--	1
Isopropylbenzene	ND		ug/kg	0.86	--	1
p-Isopropyltoluene	ND		ug/kg	0.86	--	1
Naphthalene	ND		ug/kg	3.4	--	1
n-Propylbenzene	ND		ug/kg	0.86	--	1

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	--	1
Diethyl ether	ND		ug/kg	1.7	--	1
Diisopropyl Ether	ND		ug/kg	1.7	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.7	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.7	--	1
1,4-Dioxane	ND		ug/kg	86	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/01/18 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1153336-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/01/18 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1153336-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/01/18 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1153336-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	100	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	10	--
Ethyl Acetate	ND		ug/kg	10	--
Freon-113	ND		ug/kg	4.0	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 09/01/18 09:18
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1153336-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1153336-3 WG1153336-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	102		101		70-130	1		20
Chloroform	94		94		70-130	0		20
Carbon tetrachloride	90		89		70-130	1		20
1,2-Dichloropropane	98		99		70-130	1		20
Dibromochloromethane	91		89		70-130	2		20
1,1,2-Trichloroethane	105		97		70-130	8		20
Tetrachloroethene	88		84		70-130	5		20
Chlorobenzene	90		88		70-130	2		20
Trichlorofluoromethane	82		81		70-130	1		20
1,2-Dichloroethane	104		104		70-130	0		20
1,1,1-Trichloroethane	93		93		70-130	0		20
Bromodichloromethane	99		99		70-130	0		20
trans-1,3-Dichloropropene	110		103		70-130	7		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
1,1-Dichloropropene	90		89		70-130	1		20
Bromoform	103		100		70-130	3		20
1,1,2,2-Tetrachloroethane	103		104		70-130	1		20
Benzene	91		89		70-130	2		20
Toluene	96		95		70-130	1		20
Ethylbenzene	97		96		70-130	1		20
Chloromethane	90		86		70-130	5		20
Bromomethane	77		79		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1153336-3 WG1153336-4								
Vinyl chloride	92		91		70-130	1		20
Chloroethane	98		98		70-130	0		20
1,1-Dichloroethene	84		82		70-130	2		20
trans-1,2-Dichloroethene	86		86		70-130	0		20
Trichloroethene	89		86		70-130	3		20
1,2-Dichlorobenzene	92		92		70-130	0		20
1,3-Dichlorobenzene	91		92		70-130	1		20
1,4-Dichlorobenzene	88		92		70-130	4		20
Methyl tert butyl ether	86		87		70-130	1		20
p/m-Xylene	94		92		70-130	2		20
o-Xylene	91		92		70-130	1		20
cis-1,2-Dichloroethene	89		86		70-130	3		20
Dibromomethane	90		88		70-130	2		20
1,4-Dichlorobutane	108		114		70-130	5		20
1,2,3-Trichloropropane	110		109		70-130	1		20
Styrene	96		93		70-130	3		20
Dichlorodifluoromethane	70		71		70-130	1		20
Acetone	95		99		70-130	4		20
Carbon disulfide	89		88		70-130	1		20
Methyl ethyl ketone	76		75		70-130	1		20
Methyl isobutyl ketone	86		94		70-130	9		20
2-Hexanone	**68**	Q	73		70-130	7		20
Ethyl methacrylate	77		76		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1153336-3 WG1153336-4								
Acrylonitrile	90		88		70-130	2		20
Bromochloromethane	82		78		70-130	5		20
Tetrahydrofuran	103		99		70-130	4		20
2,2-Dichloropropane	107		104		70-130	3		20
1,2-Dibromoethane	91		90		70-130	1		20
1,3-Dichloropropane	101		100		70-130	1		20
1,1,1,2-Tetrachloroethane	95		91		70-130	4		20
Bromobenzene	90		91		70-130	1		20
n-Butylbenzene	107		108		70-130	1		20
sec-Butylbenzene	98		99		70-130	1		20
tert-Butylbenzene	88		90		70-130	2		20
o-Chlorotoluene	102		106		70-130	4		20
p-Chlorotoluene	102		105		70-130	3		20
1,2-Dibromo-3-chloropropane	87		88		70-130	1		20
Hexachlorobutadiene	118		120		70-130	2		20
Isopropylbenzene	93		93		70-130	0		20
p-Isopropyltoluene	89		91		70-130	2		20
Naphthalene	79		79		70-130	0		20
n-Propylbenzene	99		100		70-130	1		20
1,2,3-Trichlorobenzene	96		101		70-130	5		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	97		99		70-130	2		20
1,2,4-Trimethylbenzene	97		100		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1153336-3 WG1153336-4								
trans-1,4-Dichloro-2-butene	116		117		70-130	1		20
Diethyl ether	99		86		70-130	14		20
Diisopropyl Ether	90		90		70-130	0		20
Ethyl-Tert-Butyl-Ether	88		87		70-130	1		20
Tertiary-Amyl Methyl Ether	84		86		70-130	2		20
1,4-Dioxane	80		76		70-130	5		20
2-Chloroethylvinyl ether	82		88		70-130	7		20
Halothane	85		84		70-130	1		20
Ethyl Acetate	86		79		70-130	8		20
Freon-113	86		85		70-130	1		20
Vinyl acetate	88		90		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		118		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 09/05/18 02:43
Analyst: ALS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 12:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	--	1
2,4-Dinitrotoluene	ND		ug/kg	180	--	1
2,6-Dinitrotoluene	ND		ug/kg	180	--	1
Azobenzene	ND		ug/kg	180	--	1
Fluoranthene	600		ug/kg	110	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Hexachloroethane	ND		ug/kg	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	1300		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	ND		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	510		ug/kg	110	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01 Date Collected: 08/29/18 12:45

Client ID: ELECTRIC SHACK RAMP 1 Date Received: 08/29/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	530		ug/kg	140	--	1
Benzo(b)fluoranthene	630		ug/kg	110	--	1
Benzo(k)fluoranthene	160		ug/kg	110	--	1
Chrysene	520		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	110		ug/kg	110	--	1
Benzo(ghi)perylene	450		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	320		ug/kg	110	--	1
Dibenzo(a,h)anthracene	210		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	140	--	1
Pyrene	560		ug/kg	110	--	1
Aniline	ND		ug/kg	220	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1
Acetophenone	ND		ug/kg	180	--	1
2,4,6-Trichlorophenol	ND		ug/kg	110	--	1
2-Chlorophenol	ND		ug/kg	180	--	1
2,4-Dichlorophenol	ND		ug/kg	160	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	390	--	1
4-Nitrophenol	ND		ug/kg	250	--	1
2,4-Dinitrophenol	ND		ug/kg	870	--	1
Pentachlorophenol	ND		ug/kg	360	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Pyridine	ND		ug/kg	200	--	1

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	85		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	50		30-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 09/05/18 06:06
Analyst: ALS
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 12:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	150	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
Hexachlorobenzene	ND		ug/kg	110	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	--	1
2,4-Dinitrotoluene	ND		ug/kg	180	--	1
2,6-Dinitrotoluene	ND		ug/kg	180	--	1
Azobenzene	ND		ug/kg	180	--	1
Fluoranthene	1500		ug/kg	110	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Hexachloroethane	ND		ug/kg	150	--	1
Isophorone	ND		ug/kg	170	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	170	--	1
Bis(2-ethylhexyl)phthalate	690		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	ND		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	770		ug/kg	110	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1834152

Project Number: 171521.52 **Report Date:** 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02 Date Collected: 08/29/18 13:00

Client ID: ELECTRIC SHACK RAMP 2 Date Received: 08/29/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	720		ug/kg	150	--	1
Benzo(b)fluoranthene	1000		ug/kg	110	--	1
Benzo(k)fluoranthene	270		ug/kg	110	--	1
Chrysene	750		ug/kg	110	--	1
Acenaphthylene	ND		ug/kg	150	--	1
Anthracene	240		ug/kg	110	--	1
Benzo(ghi)perylene	430		ug/kg	150	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	840		ug/kg	110	--	1
Dibenzo(a,h)anthracene	110		ug/kg	110	--	1
Indeno(1,2,3-cd)pyrene	450		ug/kg	150	--	1
Pyrene	1200		ug/kg	110	--	1
Aniline	ND		ug/kg	220	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	220	--	1
Acetophenone	ND		ug/kg	180	--	1
2,4,6-Trichlorophenol	ND		ug/kg	110	--	1
2-Chlorophenol	ND		ug/kg	180	--	1
2,4-Dichlorophenol	ND		ug/kg	170	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	400	--	1
4-Nitrophenol	ND		ug/kg	260	--	1
2,4-Dinitrophenol	ND		ug/kg	890	--	1
Pentachlorophenol	ND		ug/kg	370	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Pyridine	ND		ug/kg	200	--	1

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		30-130
Phenol-d6	89		30-130
Nitrobenzene-d5	91		30-130
2-Fluorobiphenyl	66		30-130
2,4,6-Tribromophenol	78		30-130
4-Terphenyl-d14	55		30-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/04/18 22:03
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 09/01/18 12:05

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1152953-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	97	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	97	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	97	--
Benzo(a)pyrene	ND		ug/kg	130	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/04/18 22:03
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 09/01/18 12:05

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1152953-1					
Benzo(b)fluoranthene	ND		ug/kg	97	--
Benzo(k)fluoranthene	ND		ug/kg	97	--
Chrysene	ND		ug/kg	97	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	97	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	97	--
Dibenzo(a,h)anthracene	ND		ug/kg	97	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	97	--
Aniline	ND		ug/kg	190	--
4-Chloroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	190	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	97	--
2-Chlorophenol	ND		ug/kg	160	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	350	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	780	--
Pentachlorophenol	ND		ug/kg	320	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 09/04/18 22:03
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 09/01/18 12:05

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG1152953-1					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		30-130
Phenol-d6	85		30-130
Nitrobenzene-d5	84		30-130
2-Fluorobiphenyl	70		30-130
2,4,6-Tribromophenol	71		30-130
4-Terphenyl-d14	74		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1152953-2 WG1152953-3								
Acenaphthene	88		92		40-140	4		30
1,2,4-Trichlorobenzene	88		86		40-140	2		30
Hexachlorobenzene	89		92		40-140	3		30
Bis(2-chloroethyl)ether	102		100		40-140	2		30
2-Chloronaphthalene	92		95		40-140	3		30
1,2-Dichlorobenzene	88		86		40-140	2		30
1,3-Dichlorobenzene	88		85		40-140	3		30
1,4-Dichlorobenzene	86		86		40-140	0		30
3,3'-Dichlorobenzidine	75		78		40-140	4		30
2,4-Dinitrotoluene	95		94		40-140	1		30
2,6-Dinitrotoluene	96		97		40-140	1		30
Azobenzene	108		110		40-140	2		30
Fluoranthene	90		95		40-140	5		30
4-Bromophenyl phenyl ether	85		86		40-140	1		30
Bis(2-chloroisopropyl)ether	113		111		40-140	2		30
Bis(2-chloroethoxy)methane	103		101		40-140	2		30
Hexachlorobutadiene	88		86		40-140	2		30
Hexachloroethane	95		92		40-140	3		30
Isophorone	104		104		40-140	0		30
Naphthalene	89		91		40-140	2		30
Nitrobenzene	106		104		40-140	2		30
Bis(2-ethylhexyl)phthalate	108		109		40-140	1		30
Butyl benzyl phthalate	103		108		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1152953-2 WG1152953-3								
Di-n-butylphthalate	99		104		40-140	5		30
Di-n-octylphthalate	113		113		40-140	0		30
Diethyl phthalate	98		99		40-140	1		30
Dimethyl phthalate	94		95		40-140	1		30
Benzo(a)anthracene	90		91		40-140	1		30
Benzo(a)pyrene	96		98		40-140	2		30
Benzo(b)fluoranthene	94		96		40-140	2		30
Benzo(k)fluoranthene	90		91		40-140	1		30
Chrysene	92		94		40-140	2		30
Acenaphthylene	90		93		40-140	3		30
Anthracene	90		97		40-140	7		30
Benzo(ghi)perylene	93		94		40-140	1		30
Fluorene	91		93		40-140	2		30
Phenanthrene	88		95		40-140	8		30
Dibenzo(a,h)anthracene	92		93		40-140	1		30
Indeno(1,2,3-cd)pyrene	93		95		40-140	2		30
Pyrene	89		93		40-140	4		30
Aniline	62		63		40-140	2		30
4-Chloroaniline	94		98		40-140	4		30
Dibenzofuran	89		90		40-140	1		30
2-Methylnaphthalene	92		92		40-140	0		30
Acetophenone	104		101		40-140	3		30
2,4,6-Trichlorophenol	91		95		30-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG1152953-2 WG1152953-3								
2-Chlorophenol	98		96		30-130	2		30
2,4-Dichlorophenol	99		100		30-130	1		30
2,4-Dimethylphenol	105		104		30-130	1		30
2-Nitrophenol	96		96		30-130	0		30
4-Nitrophenol	101		104		30-130	3		30
2,4-Dinitrophenol	63		72		30-130	13		30
Pentachlorophenol	72		76		30-130	5		30
Phenol	102		102		30-130	0		30
2-Methylphenol	100		101		30-130	1		30
3-Methylphenol/4-Methylphenol	108		107		30-130	1		30
2,4,5-Trichlorophenol	92		92		30-130	0		30
Pyridine	85		78		30-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		92		30-130
Phenol-d6	97		97		30-130
Nitrobenzene-d5	97		101		30-130
2-Fluorobiphenyl	80		83		30-130
2,4,6-Tribromophenol	81		83		30-130
4-Terphenyl-d14	75		82		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01 D
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 09/02/18 20:39
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 13:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	160000		ug/kg	73700	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02 D
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 09/02/18 21:12
Analyst: MEO
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 13:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	243000		ug/kg	73800	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 09/02/18 12:28
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 09/01/18 13:06

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-02 Batch: WG1152972-1					
TPH	ND		ug/kg	32600	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-02 Batch: WG1152972-2								
TPH	78		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	78				40-140

PCBS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/02/18 19:47
Analyst: JW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 14:09
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	--	1	A
Aroclor 1221	ND		ug/kg	35.3	--	1	A
Aroclor 1232	ND		ug/kg	35.3	--	1	A
Aroclor 1242	ND		ug/kg	35.3	--	1	A
Aroclor 1248	ND		ug/kg	35.3	--	1	A
Aroclor 1254	59.9		ug/kg	35.3	--	1	B
Aroclor 1260	46.5		ug/kg	35.3	--	1	B
Aroclor 1262	ND		ug/kg	35.3	--	1	A
Aroclor 1268	ND		ug/kg	35.3	--	1	A
PCBs, Total	106		ug/kg	35.3	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	56		30-150	A

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 09/02/18 20:00
Analyst: TQ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 14:09
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	--	1	A
Aroclor 1221	ND		ug/kg	36.7	--	1	A
Aroclor 1232	ND		ug/kg	36.7	--	1	A
Aroclor 1242	ND		ug/kg	36.7	--	1	A
Aroclor 1248	ND		ug/kg	36.7	--	1	A
Aroclor 1254	137		ug/kg	36.7	--	1	B
Aroclor 1260	51.3		ug/kg	36.7	--	1	B
Aroclor 1262	ND		ug/kg	36.7	--	1	A
Aroclor 1268	ND		ug/kg	36.7	--	1	A
PCBs, Total	188		ug/kg	36.7	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	45		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 09/02/18 19:59
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 08/31/18 21:25
Cleanup Method: EPA 3665A
Cleanup Date: 09/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 09/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01-02 Batch: WG1152834-1						
Aroclor 1016	ND		ug/kg	31.8	--	A
Aroclor 1221	ND		ug/kg	31.8	--	A
Aroclor 1232	ND		ug/kg	31.8	--	A
Aroclor 1242	ND		ug/kg	31.8	--	A
Aroclor 1248	ND		ug/kg	31.8	--	A
Aroclor 1254	ND		ug/kg	31.8	--	A
Aroclor 1260	ND		ug/kg	31.8	--	A
Aroclor 1262	ND		ug/kg	31.8	--	A
Aroclor 1268	ND		ug/kg	31.8	--	A
PCBs, Total	ND		ug/kg	31.8	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	53		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01-02 Batch: WG1152834-2 WG1152834-3									
Aroclor 1016	81		82		40-140	1		30	A
Aroclor 1260	63		63		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	B
Decachlorobiphenyl	59		60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	A
Decachlorobiphenyl	53		54		30-150	A

PESTICIDES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 09/05/18 17:34
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 14:32
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	--	1	A
Lindane	ND		ug/kg	0.562	--	1	A
Alpha-BHC	ND		ug/kg	0.702	--	1	A
Beta-BHC	ND		ug/kg	1.68	--	1	A
Heptachlor	ND		ug/kg	0.842	--	1	A
Aldrin	ND		ug/kg	1.68	--	1	A
Heptachlor epoxide	ND		ug/kg	3.16	--	1	A
Endrin	ND		ug/kg	0.702	--	1	A
Endrin ketone	ND		ug/kg	1.68	--	1	A
Dieldrin	ND		ug/kg	1.05	--	1	A
4,4'-DDE	ND		ug/kg	1.68	--	1	A
4,4'-DDD	ND		ug/kg	1.68	--	1	A
4,4'-DDT	ND		ug/kg	3.16	--	1	A
Endosulfan I	ND		ug/kg	1.68	--	1	A
Endosulfan II	ND		ug/kg	1.68	--	1	A
Endosulfan sulfate	ND		ug/kg	0.702	--	1	A
Methoxychlor	ND		ug/kg	3.16	--	1	A
Chlordane	ND		ug/kg	13.7	--	1	A
Hexachlorobenzene	ND		ug/kg	1.68	--	1	A
Toxaphene	ND		ug/kg	31.6	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 09/05/18 13:36
Analyst: DGM
Percent Solids: 90%
Methylation Date: 09/03/18 04:18

Extraction Method: EPA 8151A
Extraction Date: 09/01/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3600	--	1	A
MCPA	ND		ug/kg	3600	--	1	A
Dalapon	ND		ug/kg	36	--	1	A
Dicamba	ND		ug/kg	36	--	1	A
Dichloroprop	ND		ug/kg	36	--	1	A
2,4-D	ND		ug/kg	36	--	1	A
2,4-DB	ND		ug/kg	36	--	1	A
2,4,5-T	ND		ug/kg	36	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	36	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	75		30-150	B

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 09/05/18 13:56
Analyst: DGM
Percent Solids: 89%
Methylation Date: 09/03/18 04:18

Extraction Method: EPA 8151A
Extraction Date: 09/01/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3700	--	1	A
MCPA	ND		ug/kg	3700	--	1	A
Dalapon	ND		ug/kg	37	--	1	A
Dicamba	ND		ug/kg	37	--	1	A
Dichloroprop	ND		ug/kg	37	--	1	A
2,4-D	ND		ug/kg	37	--	1	A
2,4-DB	ND		ug/kg	37	--	1	A
2,4,5-T	ND		ug/kg	37	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	37	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	89		30-150	B

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02 D
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 09/06/18 13:03
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 09/01/18 14:32
Cleanup Method: EPA 3620B
Cleanup Date: 09/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	34.8	--	20	A
Lindane	ND		ug/kg	11.6	--	20	A
Alpha-BHC	ND		ug/kg	14.5	--	20	A
Beta-BHC	ND		ug/kg	34.8	--	20	A
Heptachlor	ND		ug/kg	17.4	--	20	A
Aldrin	ND		ug/kg	34.8	--	20	A
Heptachlor epoxide	ND		ug/kg	65.2	--	20	A
Endrin	ND		ug/kg	14.5	--	20	A
Endrin ketone	ND		ug/kg	34.8	--	20	A
Dieldrin	ND		ug/kg	21.7	--	20	A
4,4'-DDE	ND		ug/kg	34.8	--	20	A
4,4'-DDD	ND		ug/kg	34.8	--	20	A
4,4'-DDT	ND		ug/kg	65.2	--	20	A
Endosulfan I	ND		ug/kg	34.8	--	20	A
Endosulfan II	ND		ug/kg	34.8	--	20	A
Endosulfan sulfate	ND		ug/kg	14.5	--	20	A
Methoxychlor	ND		ug/kg	65.2	--	20	A
Chlordane	ND		ug/kg	283	--	20	A
Hexachlorobenzene	ND		ug/kg	34.8	--	20	A
Toxaphene	ND		ug/kg	652	--	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 09/01/18 12:20
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 08/31/18 21:20
Cleanup Method: EPA 3620B
Cleanup Date: 09/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01-02 Batch: WG1152833-1						
Delta-BHC	ND		ug/kg	1.55	--	A
Lindane	ND		ug/kg	0.516	--	A
Alpha-BHC	ND		ug/kg	0.646	--	A
Beta-BHC	ND		ug/kg	1.55	--	A
Heptachlor	ND		ug/kg	0.775	--	A
Aldrin	ND		ug/kg	1.55	--	A
Heptachlor epoxide	ND		ug/kg	2.90	--	A
Endrin	ND		ug/kg	0.646	--	A
Endrin ketone	ND		ug/kg	1.55	--	A
Dieldrin	ND		ug/kg	0.968	--	A
4,4'-DDE	ND		ug/kg	1.55	--	A
4,4'-DDD	ND		ug/kg	1.55	--	A
4,4'-DDT	ND		ug/kg	2.90	--	A
Endosulfan I	ND		ug/kg	1.55	--	A
Endosulfan II	ND		ug/kg	1.55	--	A
Endosulfan sulfate	ND		ug/kg	0.646	--	A
Methoxychlor	ND		ug/kg	2.90	--	A
Chlordane	ND		ug/kg	12.6	--	A
Hexachlorobenzene	ND		ug/kg	1.55	--	A
Toxaphene	ND		ug/kg	29.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 09/04/18 20:56
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 09/01/18 07:53

Methylation Date: 09/03/18 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01-02 Batch: WG1152901-1						
MCPP	ND		ug/kg	3300	--	A
MCPA	ND		ug/kg	3300	--	A
Dalapon	ND		ug/kg	33	--	A
Dicamba	ND		ug/kg	33	--	A
Dichloroprop	ND		ug/kg	33	--	A
2,4-D	ND		ug/kg	33	--	A
2,4-DB	ND		ug/kg	33	--	A
2,4,5-T	ND		ug/kg	33	--	A
2,4,5-TP (Silvex)	ND		ug/kg	33	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	99		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1152833-2 WG1152833-3									
Delta-BHC	97		87		40-140	11		30	A
Lindane	95		84		40-140	12		30	A
Alpha-BHC	92		83		40-140	10		30	A
Beta-BHC	94		84		40-140	11		30	A
Heptachlor	104		94		40-140	10		30	A
Aldrin	103		93		40-140	10		30	A
Heptachlor epoxide	108		98		40-140	10		30	A
Endrin	116		105		40-140	10		30	A
Endrin ketone	102		87		40-140	16		30	A
Dieldrin	117		105		40-140	11		30	A
4,4'-DDE	105		95		40-140	10		30	A
4,4'-DDD	104		95		40-140	9		30	A
4,4'-DDT	115		105		40-140	9		30	A
Endosulfan I	99		90		40-140	10		30	A
Endosulfan II	99		87		40-140	13		30	A
Endosulfan sulfate	83		68		40-140	20		30	A
Methoxychlor	113		101		40-140	11		30	A
Hexachlorobenzene	102		91		40-140	11		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1152833-2 WG1152833-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		89		30-150	B
Decachlorobiphenyl	106		106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	107		96		30-150	A
Decachlorobiphenyl	102		99		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01-02 Batch: WG1152833-4 WG1152833-5									
Toxaphene	65		89		40-140	**31**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		76		30-150	B
Decachlorobiphenyl	67		90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	62		77		30-150	A
Decachlorobiphenyl	66		87		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01-02 Batch: WG1152901-2 WG1152901-3									
MCPP	114		112		40-140	2		30	A
MCPA	111		112		40-140	1		30	A
Dalapon	92		87		40-140	6		30	A
Dicamba	109		105		40-140	4		30	A
Dichloroprop	125		137		40-140	9		30	A
2,4-D	125		125		40-140	0		30	A
2,4-DB	**160**	Q	**161**	Q	40-140	1		30	A
2,4,5-T	96		97		40-140	1		30	A
2,4,5-TP (Silvex)	129		129		40-140	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	122		116		30-150	A
DCAA	108		104		30-150	B

METALS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	5.15		mg/kg	2.16	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Arsenic, Total	23.4		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Barium, Total	43.4		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Beryllium, Total	0.220		mg/kg	0.216	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Cadmium, Total	0.978		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Chromium, Total	7.28		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Lead, Total	224		mg/kg	2.16	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Mercury, Total	1.07		mg/kg	0.070	--	1	09/06/18 09:20	09/06/18 12:10	EPA 7471B	97,7471B	MG
Nickel, Total	6.09		mg/kg	1.08	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Selenium, Total	3.34		mg/kg	2.16	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Silver, Total	ND		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Thallium, Total	ND		mg/kg	2.16	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Vanadium, Total	14.1		mg/kg	0.431	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE
Zinc, Total	231		mg/kg	2.16	--	1	09/06/18 01:00	09/06/18 08:41	EPA 3050B	97,6010D	PE

Project Name: WYNN BOSTON HARBOR
Lab Number: L1834152
Project Number: 171521.52
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	6.31		mg/kg	2.23	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Arsenic, Total	26.2		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Barium, Total	120		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Beryllium, Total	0.268		mg/kg	0.223	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Cadmium, Total	1.78		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Chromium, Total	11.2		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Lead, Total	316		mg/kg	2.23	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Mercury, Total	1.73		mg/kg	0.072	--	1	09/06/18 09:20	09/06/18 12:11	EPA 7471B	97,7471B	MG
Nickel, Total	9.98		mg/kg	1.12	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Selenium, Total	ND		mg/kg	2.23	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Silver, Total	0.995		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Thallium, Total	ND		mg/kg	2.23	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Vanadium, Total	16.8		mg/kg	0.446	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE
Zinc, Total	345		mg/kg	2.23	--	1	09/06/18 01:00	09/06/18 08:45	EPA 3050B	97,6010D	PE

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1153872-1										
Antimony, Total	ND		mg/kg	2.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Arsenic, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Barium, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Beryllium, Total	ND		mg/kg	0.200	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Cadmium, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Chromium, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Lead, Total	ND		mg/kg	2.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Nickel, Total	ND		mg/kg	1.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Selenium, Total	ND		mg/kg	2.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Silver, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Thallium, Total	ND		mg/kg	2.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Vanadium, Total	ND		mg/kg	0.400	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE
Zinc, Total	ND		mg/kg	2.00	--	1	09/06/18 01:00	09/06/18 08:16	97,6010D	PE

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1154065-1										
Mercury, Total	ND		mg/kg	0.083	--	1	09/06/18 09:20	09/06/18 12:04	97,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1153872-2 WG1153872-3 SRM Lot Number: D102-540								
Antimony, Total	154		138		1-199	11		30
Arsenic, Total	92		92		83-117	0		30
Barium, Total	90		90		83-118	0		30
Beryllium, Total	91		92		83-116	1		30
Cadmium, Total	88		95		83-118	8		30
Chromium, Total	89		87		83-117	2		30
Lead, Total	88		90		82-118	2		30
Nickel, Total	88		89		83-117	1		30
Selenium, Total	93		96		79-121	3		30
Silver, Total	92		90		80-120	2		30
Thallium, Total	89		92		81-119	3		30
Vanadium, Total	88		88		80-120	0		30
Zinc, Total	88		87		81-118	1		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1154065-2 WG1154065-3 SRM Lot Number: D102-540								
Mercury, Total	128		128		65-134	0		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	08/30/18 00:15	1,1030	SB

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	08/30/18 00:15	1,1030	SB

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	220		umhos/cm	10	--	1	-	08/30/18 02:39	1,9050A	MA
Solids, Total	89.7		%	0.100	NA	1	-	08/30/18 13:49	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	08/30/18 02:54	1,9045D	MA
Flash Point	>150		deg F	70	NA	1	-	08/30/18 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:44	125,7.3	RM
Sulfide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:29	125,7.3	RM

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

SAMPLE RESULTS

Lab ID: L1834152-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	390		umhos/cm	10	--	1	-	08/30/18 02:39	1,9050A	MA
Solids, Total	88.9		%	0.100	NA	1	-	08/30/18 13:49	121,2540G	RI
pH (H)	7.4		SU	-	NA	1	-	08/30/18 02:54	1,9045D	MA
Flash Point	>150		deg F	70	NA	1	-	08/30/18 09:50	1,1010A	BR
Cyanide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:44	125,7.3	RM
Sulfide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:29	125,7.3	RM

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1834152
Report Date: 09/06/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1152402-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:28	125,7.3	RM
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1152404-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	08/30/18 21:13	08/30/18 22:43	125,7.3	RM

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1834152

Report Date: 09/06/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1152025-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1152123-1								
Specific Conductance	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1152162-1								
Flash Point	99		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1152402-2								
Sulfide, Reactive	95		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1152404-2								
Cyanide, Reactive	63		-		30-125	-		40

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1152025-2 QC Sample: L1834152-01 Client ID: ELECTRIC SHACK RAMP 1						
pH (H)	7.8	7.8	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1152123-2 QC Sample: L1834152-01 Client ID: ELECTRIC SHACK RAMP 1						
Specific Conductance @ 25 C	220	200	umhos/cm	10		20

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1834152-01A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1834152-01B	Vial water preserved	A	NA		3.6	Y	Absent	30-AUG-18 01:04	MCP-8260HLW-10(14)
L1834152-01C	Vial water preserved	A	NA		3.6	Y	Absent	30-AUG-18 01:04	MCP-8260HLW-10(14)
L1834152-01D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1834152-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)
L1834152-01F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1834152-01G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1834152-02A	Vial MeOH preserved	A	NA		3.6	Y	Absent		MCP-8260HLW-10(14)
L1834152-02B	Vial water preserved	A	NA		3.6	Y	Absent	30-AUG-18 01:04	MCP-8260HLW-10(14)
L1834152-02C	Vial water preserved	A	NA		3.6	Y	Absent	30-AUG-18 01:04	MCP-8260HLW-10(14)
L1834152-02D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1834152-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-TL-6010T-10(180),MCP-AG-6010T-10(180),MCP-SB-6010T-10(180),MCP-ZN-6010T-10(180),MCP-BE-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-V-6010T-10(180),MCP-NI-6010T-10(180),MCP-PB-6010T-10(180)

*Values in parentheses indicate holding time in days

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1834152
Report Date: 09/06/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1834152-02F	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1834152-02G	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1834152
Project Number:	171521.52	**Report Date:**	09/06/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1834152
Project Number:	171521.52	**Report Date:**	09/06/18

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1834152
Project Number:	171521.52	**Report Date:**	09/06/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW 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: Al, 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.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/29/18

ALPHA Job #: L1834152

Project Information

Project Name: Wynn Boston Harbor

Project Location: 1 Horizon Way, Everett MA

Project #: 01.0171521.52

Project Manager: Neal Carey

ALPHA Quote #:

Client Information

Client: GZA

Address: 249 Vanderbilt Ave

Norwood, MA

Phone: (781) 278-3700

Fax: (781) 278-5752

Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Standard Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP 20x rule applies for MCP-14 metals

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
34152.01	Electric Shack Ramp 1	8/29/18	1245	S	LWP	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
.02	Electric Shack Ramp 2	8/29/18	1300	S	LWP	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
					Container Type	G	-	-	-	-	-	-	-	-	-	-	-		
					Preservative	-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Luke Prokeske	8/29 1530	[signature] AAL	8/29/18 1530
[signature]	8/29/18 1905	[signature]	8/29/18 1905

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I) (rev. 5-JAN-12)

Method Blank Summary
Form 4
VOLATILES

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Lab Sample ID	: WG1153336-5	**Lab File ID**	: V10180901A05
Instrument ID	: VOA110		
Matrix	: SOIL	**Analysis Date**	: 09/01/18 09:18

Client Sample No.	Lab Sample ID	Analysis Date
WG1153336-3LCS	WG1153336-3	09/01/18 08:00
WG1153336-4LCSD	WG1153336-4	09/01/18 08:26
ELECTRIC SHACK RAMP 1	L1834152-01	09/01/18 15:21
ELECTRIC SHACK RAMP 2	L1834152-02	09/01/18 15:47

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152		
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52		
Instrument ID	: VOA110	**Calibration Date**	: 09/01/18 08:00		
Lab File ID	: V10180901A02	**Init. Calib. Date(s)**	: 06/06/18	06/07/18	
Sample No	: WG1153336-2	**Init. Calib. Times**	: 16:59	12:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	67	0
Dichlorodifluoromethane	0.216	0.152	-	29.6*	20	53	0
Chloromethane	0.206	0.184	-	10.7	20	63	0
Vinyl chloride	0.213	0.197	-	7.5	20	67	0
Bromomethane	0.197	0.152	-	22.8*	20	62	0
Chloroethane	0.165	0.161	-	2.4	20	73	.03
Trichlorofluoromethane	0.479	0.391	-	18.4	20	62	.02
Ethyl ether	0.12	0.119	-	0.8	20	67	0
1,1-Dichloroethene	0.189	0.158	-	16.4	20	62	0
Carbon disulfide	0.547	0.485	-	11.3	20	65	.01
Freon-113	0.207	0.178*	-	14	20	65	.01
Acrolein	0.027	0.022*	-	18.5	20	52	0
Methylene chloride	0.228	0.203	-	11	20	63	0
Acetone	20	18.917	-	5.4	20	68	.01
trans-1,2-Dichloroethene	0.216	0.185	-	14.4	20	60	0
Methyl acetate	0.114	0.104	-	8.8	20	61	0
Methyl tert-butyl ether	0.572	0.491	-	14.2	20	58	0
tert-Butyl alcohol	0.018	0.016*	-	11.1	20	62	0
Diisopropyl ether	0.646	0.583	-	9.8	20	62	0
1,1-Dichloroethane	0.362	0.368	-	-1.7	20	71	0
Halothane	0.187	0.159	-	15	20	60	0
Acrylonitrile	0.049	0.044*	-	10.2	20	65	.02
Ethyl tert-butyl ether	0.573	0.502	-	12.4	20	60	0
Vinyl acetate	0.457	0.4	-	12.5	20	60	.01
cis-1,2-Dichloroethene	0.243	0.217	-	10.7	20	61	0
2,2-Dichloropropane	0.306	0.327	-	-6.9	20	75	0
Bromochloromethane	0.135	0.111	-	17.8	20	54	0
Cyclohexane	0.298	0.257	-	13.8	20	64	0
Chloroform	0.407	0.382	-	6.1	20	66	0
Ethyl acetate	0.178	0.152	-	14.6	20	58	0
Carbon tetrachloride	0.36	0.323	-	10.3	20	64	0
Tetrahydrofuran	0.056	0.058	-	-3.6	20	67	0
Dibromofluoromethane	0.297	0.286	-	3.7	20	67	0
1,1,1-Trichloroethane	0.368	0.342	-	7.1	20	67	0
2-Butanone	0.075	0.057*	-	24*	20	52	.02
1,1-Dichloropropene	0.272	0.244	-	10.3	20	62	0
Benzene	0.841	0.765	-	9	20	65	0
tert-Amyl methyl ether	0.581	0.487	-	16.2	20	57	0
1,2-Dichloroethane-d4	0.26	0.306	-	-17.7	20	80	0
1,2-Dichloroethane	0.277	0.288	-	-4	20	71	0
Methyl cyclohexane	0.358	0.294	-	17.9	20	61	0
Trichloroethene	0.239	0.212	-	11.3	20	65	0
Dibromomethane	0.143	0.129	-	9.8	20	59	0
1,2-Dichloropropane	0.197	0.193	-	2	20	65	0
2-Chloroethyl vinyl ether	0.105	0.086	-	18.1	20	53	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1834152		
Project Name	: WYNN BOSTON HARBOR	Project Number	: 171521.52		
Instrument ID	: VOA110	Calibration Date	: 09/01/18 08:00		
Lab File ID	: V10180901A02	Init. Calib. Date(s)	: 06/06/18	06/07/18	
Sample No	: WG1153336-2	Init. Calib. Times	: 16:59	12:05	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.311	0.308	-	1	20	68	0
1,4-Dioxane	1000	798.595	-	20.1*	20	49	0
cis-1,3-Dichloropropene	0.315	0.307	-	2.5	20	64	0
Chlorobenzene-d5	1	1	-	0	20	62	0
Toluene-d8	1.27	1.349	-	-6.2	20	66	0
Toluene	0.673	0.645	-	4.2	20	61	0
4-Methyl-2-pentanone	0.07	0.06*	-	14.3	20	52	0
Tetrachloroethene	0.345	0.302	-	12.5	20	60	0
trans-1,3-Dichloropropene	0.342	0.378	-	-10.5	20	69	0
Ethyl methacrylate	20	15.403	-	23*	20	54	0
1,1,2-Trichloroethane	0.192	0.202	-	-5.2	20	64	0
Chlorodibromomethane	0.34	0.308	-	9.4	20	57	0
1,3-Dichloropropane	0.368	0.372	-	-1.1	20	60	0
1,2-Dibromoethane	0.244	0.221	-	9.4	20	54	0
2-Hexanone	0.144	0.098*	-	31.9*	20	44	.02
Chlorobenzene	0.85	0.767	-	9.8	20	57	0
Ethylbenzene	1.277	1.235	-	3.3	20	61	0
1,1,1,2-Tetrachloroethane	0.333	0.315	-	5.4	20	59	0
p/m Xylene	0.516	0.487	-	5.6	20	59	0
o Xylene	0.516	0.471	-	8.7	20	56	0
Styrene	0.831	0.795	-	4.3	20	59	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	63	0
Bromoform	0.372	0.382	-	-2.7	20	64	0
Isopropylbenzene	2.332	2.158	-	7.5	20	58	0
4-Bromofluorobenzene	0.774	0.801	-	-3.5	20	64	0
Bromobenzene	0.683	0.612	-	10.4	20	56	0
n-Propylbenzene	2.707	2.675	-	1.2	20	63	0
1,4-Dichlorobutane	0.596	0.647	-	-8.6	20	67	0
1,1,2,2-Tetrachloroethane	0.541	0.557	-	-3	20	62	0
4-Ethyltoluene	2.429	2.28	-	6.1	20	58	0
2-Chlorotoluene	1.598	1.626	-	-1.8	20	64	0
1,3,5-Trimethylbenzene	1.996	1.943	-	2.7	20	60	0
1,2,3-Trichloropropane	0.4	0.44	-	-10	20	66	0
trans-1,4-Dichloro-2-buten	0.119	0.138	-	-16	20	69	0
4-Chlorotoluene	1.63	1.656	-	-1.6	20	64	0
tert-Butylbenzene	1.83	1.605	-	12.3	20	54	0
1,2,4-Trimethylbenzene	1.977	1.91	-	3.4	20	60	0
sec-Butylbenzene	2.556	2.499	-	2.2	20	62	0
p-Isopropyltoluene	2.35	2.102	-	10.6	20	56	0
1,3-Dichlorobenzene	1.332	1.206	-	9.5	20	57	0
1,4-Dichlorobenzene	1.383	1.222	-	11.6	20	57	0
p-Diethylbenzene	1.488	1.251	-	15.9	20	53	0
n-Butylbenzene	1.969	2.114	-	-7.4	20	67	0
1,2-Dichlorobenzene	1.248	1.144	-	8.3	20	56	0
1,2,4,5-Tetramethylbenzene	2.305	1.822	-	21*	20	48	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.		**Lab Number**	: L1834152	
Project Name	: WYNN BOSTON HARBOR		**Project Number**	: 171521.52	
Instrument ID	: VOA110		**Calibration Date**	: 09/01/18 08:00	
Lab File ID	: V10180901A02		**Init. Calib. Date(s)**	: 06/06/18	06/07/18
Sample No	: WG1153336-2		**Init. Calib. Times**	: 16:59	12:05
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.095	0.083	-	12.6	20	54	0
1,3,5-Trichlorobenzene	1.025	0.993	-	3.1	20	62	0
Hexachlorobutadiene	0.417	0.494	-	-18.5	20	78	0
1,2,4-Trichlorobenzene	0.861	0.779	-	9.5	20	57	0
Naphthalene	1.87	1.47	-	21.4*	20	47	0
1,2,3-Trichlorobenzene	0.797	0.769	-	3.5	20	60	0

* Value outside of QC limits.

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST11	**Analysis Date**	: 09/01/18 10:08
PEM Standard	: R1107810-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	19091035.91523	37728800
Endrin	1400086783.1578	1727465428.3535
4,4'-DDD	29999778.8421	57625336.26804
4,4'-DDT	2250697031.8697	2303640208.5061
Endrin Aldehyde	18006102.19888	36392216
Endrin Ketone	29561568	52069556.64488

Parameter	%Breakdown 1	%Breakdown 2
Endrin	3.28	4.87
DDT	2.13	3.97

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 09/05/18 10:48
PEM Standard	: R1108546-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	3201559.13239	1665799.94545
Endrin	281409082.3993	98353359.00452
4,4'-DDD	2093960.48425	1152357.69487
4,4'-DDT	484249535.24032	314683641.792
Endrin Aldehyde	2831129.74107	0
Endrin Ketone	5728929.58422	3198849.71955

Parameter	%Breakdown 1	%Breakdown 2
Endrin	2.95	3.15
DDT	1.08	0.888

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST11	**Analysis Date**	: 09/05/18 11:05
PEM Standard	: R1108347-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	12700633.97977	19805982
Endrin	1027607270.5822	1287391517.7695
4,4'-DDD	17784537.72801	36549201.2766
4,4'-DDT	1641670678.9987	1716010104
Endrin Aldehyde	7276638.76212	29386152.09278
Endrin Ketone	16082924.62084	43533732.58911

Parameter	%Breakdown 1	%Breakdown 2
Endrin	2.22	5.36
DDT	1.82	3.18

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1834152
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 09/06/18 08:44
PEM Standard	: R1108640-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1996479.21642	1454069.08097
Endrin	258645067.25073	89382017.38095
4,4'-DDD	2438753.08207	1286369.24048
4,4'-DDT	443347802.50132	281848511.22791
Endrin Aldehyde	2026093.83536	0
Endrin Ketone	3951299.95758	4005706.50589

Parameter	%Breakdown 1	%Breakdown 2
Endrin	2.26	4.29
DDT	0.990	0.963

ANALYTICAL REPORT

Lab Number:	L1835121
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Matthew Smith
Phone:	(781) 278-5830
Project Name:	WYNN BOSTON HARBOR
Project Number:	171521.52
Report Date:	09/10/18

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

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1835121
Report Date: 09/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1835121-01	ELECTRIC SHACK RAMP 1	SOIL	1 HORIZON WAY, EVERETT, MA	08/29/18 12:45	08/29/18
L1835121-02	ELECTRIC SHACK RAMP 2	SOIL	1 HORIZON WAY, EVERETT, MA	08/29/18 13:00	08/29/18

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1835121
Report Date: 09/10/18

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.

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.

Authorized Signature:  Amita Naik

Title: Technical Director/Representative Date: 09/10/18

METALS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1835121
Project Number: 171521.52
Report Date: 09/10/18

SAMPLE RESULTS

Lab ID: L1835121-01
Client ID: ELECTRIC SHACK RAMP 1
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 08/29/18 12:45
Date Received: 08/29/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 09/07/18 22:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	1.36		mg/l	0.500	--	1	09/10/18 09:50	09/10/18 13:20	EPA 3015	1,6010D	PS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1835121
Project Number: 171521.52
Report Date: 09/10/18

SAMPLE RESULTS

Lab ID: L1835121-02
Client ID: ELECTRIC SHACK RAMP 2
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 08/29/18 13:00
Date Received: 08/29/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 09/07/18 22:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	0.501		mg/l	0.500	--	1	09/10/18 09:50	09/10/18 13:40	EPA 3015	1,6010D	PS

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1835121
Report Date: 09/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1155105-1										
Lead, TCLP	ND		mg/l	0.500	--	1	09/10/18 09:50	09/10/18 13:10	1,6010D	PS

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 09/07/18 22:42

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1835121

Report Date: 09/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1155105-2								
Lead, TCLP	96		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1835121
Report Date: 09/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1155105-3 QC Sample: L1835121-01 Client ID: ELECTRIC SHACK RAMP 1												
Lead, TCLP	1.36	5.1	6.10	93		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1835121

Report Date: 09/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1155105-4 QC Sample: L1835121-01 Client ID: ELECTRIC SHACK RAMP 1						
Lead, TCLP	1.36	1.32	mg/l	3		20

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1835121
Report Date: 09/10/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1835121-01A	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		-
L1835121-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1835121-01X1	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1835121-01X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L1835121-02A	Glass 500ml/16oz unpreserved	A	NA		3.6	Y	Absent		-
L1835121-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1835121-02X1	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L1835121-02X9	Tumble Vessel	A	NA		3.6	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1835121
Project Number:	171521.52	**Report Date:**	09/10/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1835121
Project Number:	171521.52	**Report Date:**	09/10/18

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1835121
Project Number:	171521.52	**Report Date:**	09/10/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW 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: Al, 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.

L1835121 EO 9/7/18

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8/29/18

ALPHA Job #: L1835152

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: GZA
Address: 249 Vanderbilt Ave
Norwood, MA
Phone: (781) 278-3700
Fax: (781) 278-5752
Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: Wynn Boston Harbor
Project Location: 1 Horizon Way, Everett MA
Project #: 01.0171521.52
Project Manager: Neal Carey
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Standard Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes	☐ No	Are MCP Analytical Methods Required?
☒ Yes	☐ No	Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP 20x rule applies for MCP-14 metals

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

35121

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials
35121.01	Electric Shack Ramp 1	8/29/18	1245	S	LWP
.02	Electric Shack Ramp 2	8/29/18	1300	S	LWP
				S	
				S	
				S	
				S	
				S	
				S	
				S	
				S	

MCP-14 Metals; VOC's 8260; SVOC's 8270 with Pyridine; PCB's, TPH, pH; Herbicides, Pesticides w/ Toxaphene; Conductivity, Flashpoint; Sulfide, Cyanide (Reactivity); TCLP-Pb

Container Type	G	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By	Date/Time
Wes Probeska	8/29 1530		8/29/18 1530
	8/29/18 1905		1905

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1844736
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Matthew Smith
Phone:	(781) 278-5830
Project Name:	WYNN BOSTON HARBOR
Project Number:	171521.52
Report Date:	11/07/18

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

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1844736
Report Date: 11/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1844736-01	CRANE MAT ROAD	SOIL	1 HORIZON WAY, EVERETT, MA	11/01/18 08:30	11/01/18

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1844736

Project Number: 171521.52 **Report Date:** 11/07/18

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 affirmative 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	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
E b.	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 response 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
H	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 BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1844736
Report Date: 11/07/18

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 BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

The element list for metals analysis was specified by the client.

In reference to question H:

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

Volatile Organics

In reference to question H:

The initial calibration, associated with L1844736-01, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.0584) and 1,4-dioxane (0.0012), as well as the average response factor for 4-methyl-2-pentanone and 1,4-dioxane. In addition, the initial calibration verification is outside acceptance criteria for bromomethane (146%).

The continuing calibration standard, associated with L1844736-01, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

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.

Authorized Signature: Melissa Cripps Melissa Cripps

Title: Technical Director/Representative Date: 11/07/18

ORGANICS

VOLATILES

Project Name: WYNN BOSTON HARBOR
Lab Number: L1844736
Project Number: 171521.52
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 11/06/18 13:18
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	--	1
1,1-Dichloroethane	ND		ug/kg	0.79	--	1
Chloroform	ND		ug/kg	1.2	--	1
Carbon tetrachloride	ND		ug/kg	0.79	--	1
1,2-Dichloropropane	ND		ug/kg	0.79	--	1
Dibromochloromethane	ND		ug/kg	0.79	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.79	--	1
Tetrachloroethene	ND		ug/kg	0.40	--	1
Chlorobenzene	ND		ug/kg	0.40	--	1
Trichlorofluoromethane	ND		ug/kg	3.2	--	1
1,2-Dichloroethane	ND		ug/kg	0.79	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	--	1
Bromodichloromethane	ND		ug/kg	0.40	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	--	1
1,1-Dichloropropene	ND		ug/kg	0.40	--	1
Bromoform	ND		ug/kg	3.2	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Benzene	ND		ug/kg	0.40	--	1
Toluene	ND		ug/kg	0.79	--	1
Ethylbenzene	ND		ug/kg	0.79	--	1
Chloromethane	ND		ug/kg	3.2	--	1
Bromomethane	ND		ug/kg	1.6	--	1
Vinyl chloride	ND		ug/kg	0.79	--	1
Chloroethane	ND		ug/kg	1.6	--	1
1,1-Dichloroethene	ND		ug/kg	0.79	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1844736

Project Number: 171521.52 **Report Date:** 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01 Date Collected: 11/01/18 08:30

Client ID: CRANE MAT ROAD Date Received: 11/01/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	--	1
Methyl tert butyl ether	ND		ug/kg	1.6	--	1
p/m-Xylene	ND		ug/kg	1.6	--	1
o-Xylene	ND		ug/kg	0.79	--	1
Xylenes, Total	ND		ug/kg	0.79	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.79	--	1
Dibromomethane	ND		ug/kg	1.6	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	--	1
Styrene	ND		ug/kg	0.79	--	1
Dichlorodifluoromethane	ND		ug/kg	7.9	--	1
Acetone	27		ug/kg	7.9	--	1
Carbon disulfide	ND		ug/kg	7.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.9	--	1
Methyl isobutyl ketone	ND		ug/kg	7.9	--	1
2-Hexanone	ND		ug/kg	7.9	--	1
Bromochloromethane	ND		ug/kg	1.6	--	1
Tetrahydrofuran	ND		ug/kg	3.2	--	1
2,2-Dichloropropane	ND		ug/kg	1.6	--	1
1,2-Dibromoethane	ND		ug/kg	0.79	--	1
1,3-Dichloropropane	ND		ug/kg	1.6	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	--	1
Bromobenzene	ND		ug/kg	1.6	--	1
n-Butylbenzene	ND		ug/kg	0.79	--	1
sec-Butylbenzene	ND		ug/kg	0.79	--	1
tert-Butylbenzene	ND		ug/kg	1.6	--	1
o-Chlorotoluene	ND		ug/kg	1.6	--	1
p-Chlorotoluene	ND		ug/kg	1.6	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	--	1
Hexachlorobutadiene	ND		ug/kg	3.2	--	1
Isopropylbenzene	ND		ug/kg	0.79	--	1
p-Isopropyltoluene	ND		ug/kg	0.79	--	1
Naphthalene	ND		ug/kg	3.2	--	1
n-Propylbenzene	ND		ug/kg	0.79	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1844736

Project Number: 171521.52 **Report Date:** 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01 Date Collected: 11/01/18 08:30

Client ID: CRANE MAT ROAD Date Received: 11/01/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	--	1
Diethyl ether	ND		ug/kg	1.6	--	1
Diisopropyl Ether	ND		ug/kg	1.6	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.6	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.6	--	1
1,4-Dioxane	ND		ug/kg	79	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 11/06/18 08:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1176516-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 11/06/18 08:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1176516-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	10	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 11/06/18 08:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1176516-5					
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	100	--
2-Chloroethylvinyl ether	ND		ug/kg	20	--
Halothane	ND		ug/kg	10	--
Ethyl Acetate	ND		ug/kg	10	--
Freon-113	ND		ug/kg	4.0	--
Vinyl acetate	ND		ug/kg	10	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 11/06/18 08:07
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1176516-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1176516-3 WG1176516-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	95		94		70-130	1		20
Chloroform	96		96		70-130	0		20
Carbon tetrachloride	97		96		70-130	1		20
1,2-Dichloropropane	95		95		70-130	0		20
Dibromochloromethane	97		96		70-130	1		20
1,1,2-Trichloroethane	97		97		70-130	0		20
Tetrachloroethene	102		99		70-130	3		20
Chlorobenzene	96		95		70-130	1		20
Trichlorofluoromethane	99		97		70-130	2		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	98		97		70-130	1		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	96		95		70-130	1		20
cis-1,3-Dichloropropene	98		98		70-130	0		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	94		94		70-130	0		20
1,1,2,2-Tetrachloroethane	96		96		70-130	0		20
Benzene	96		96		70-130	0		20
Toluene	94		94		70-130	0		20
Ethylbenzene	93		92		70-130	1		20
Chloromethane	76		75		70-130	1		20
Bromomethane	**156**	Q	**155**	Q	70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1176516-3 WG1176516-4								
Vinyl chloride	96		94		70-130	2		20
Chloroethane	96		94		70-130	2		20
1,1-Dichloroethene	99		96		70-130	3		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	98		97		70-130	1		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	96		96		70-130	0		20
1,4-Dichlorobenzene	95		95		70-130	0		20
Methyl tert butyl ether	93		95		70-130	2		20
p/m-Xylene	95		94		70-130	1		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	98		98		70-130	0		20
Dibromomethane	97		97		70-130	0		20
1,4-Dichlorobutane	89		90		70-130	1		20
1,2,3-Trichloropropane	92		94		70-130	2		20
Styrene	93		93		70-130	0		20
Dichlorodifluoromethane	112		110		70-130	2		20
Acetone	79		73		70-130	8		20
Carbon disulfide	90		87		70-130	3		20
Methyl ethyl ketone	81		75		70-130	8		20
Methyl isobutyl ketone	92		94		70-130	2		20
2-Hexanone	79		78		70-130	1		20
Ethyl methacrylate	91		92		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1176516-3 WG1176516-4								
Acrylonitrile	85		92		70-130	8		20
Bromochloromethane	102		102		70-130	0		20
Tetrahydrofuran	97		99		70-130	2		20
2,2-Dichloropropane	96		94		70-130	2		20
1,2-Dibromoethane	97		99		70-130	2		20
1,3-Dichloropropane	96		96		70-130	0		20
1,1,1,2-Tetrachloroethane	98		97		70-130	1		20
Bromobenzene	96		95		70-130	1		20
n-Butylbenzene	96		94		70-130	2		20
sec-Butylbenzene	95		94		70-130	1		20
tert-Butylbenzene	95		93		70-130	2		20
o-Chlorotoluene	100		99		70-130	1		20
p-Chlorotoluene	93		93		70-130	0		20
1,2-Dibromo-3-chloropropane	90		93		70-130	3		20
Hexachlorobutadiene	95		96		70-130	1		20
Isopropylbenzene	96		94		70-130	2		20
p-Isopropyltoluene	96		94		70-130	2		20
Naphthalene	92		93		70-130	1		20
n-Propylbenzene	94		93		70-130	1		20
1,2,3-Trichlorobenzene	99		98		70-130	1		20
1,2,4-Trichlorobenzene	100		99		70-130	1		20
1,3,5-Trimethylbenzene	95		93		70-130	2		20
1,2,4-Trimethylbenzene	94		94		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1176516-3 WG1176516-4								
trans-1,4-Dichloro-2-butene	96		88		70-130	9		20
Diethyl ether	96		96		70-130	0		20
Diisopropyl Ether	91		91		70-130	0		20
Ethyl-Tert-Butyl-Ether	93		93		70-130	0		20
Tertiary-Amyl Methyl Ether	94		94		70-130	0		20
1,4-Dioxane	98		100		70-130	2		20
2-Chloroethylvinyl ether	90		87		70-130	3		20
Halothane	99		98		70-130	1		20
Ethyl Acetate	85		85		70-130	0		20
Freon-113	103		101		70-130	2		20
Vinyl acetate	93		94		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	102		103		70-130

SEMIVOLATILES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8270D
Analytical Date: 11/06/18 07:44
Analyst: SZ
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Acenaphthene	ND		ug/kg	140	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	1
Hexachlorobenzene	ND		ug/kg	100	--	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	--	1
2-Chloronaphthalene	ND		ug/kg	180	--	1
1,2-Dichlorobenzene	ND		ug/kg	180	--	1
1,3-Dichlorobenzene	ND		ug/kg	180	--	1
1,4-Dichlorobenzene	ND		ug/kg	180	--	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	--	1
2,4-Dinitrotoluene	ND		ug/kg	180	--	1
2,6-Dinitrotoluene	ND		ug/kg	180	--	1
Azobenzene	ND		ug/kg	180	--	1
Fluoranthene	940		ug/kg	100	--	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	--	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	--	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Hexachloroethane	ND		ug/kg	140	--	1
Isophorone	ND		ug/kg	160	--	1
Naphthalene	ND		ug/kg	180	--	1
Nitrobenzene	ND		ug/kg	160	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	--	1
Butyl benzyl phthalate	ND		ug/kg	180	--	1
Di-n-butylphthalate	ND		ug/kg	180	--	1
Di-n-octylphthalate	ND		ug/kg	180	--	1
Diethyl phthalate	ND		ug/kg	180	--	1
Dimethyl phthalate	ND		ug/kg	180	--	1
Benzo(a)anthracene	430		ug/kg	100	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1844736

Project Number: 171521.52 **Report Date:** 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01 Date Collected: 11/01/18 08:30

Client ID: CRANE MAT ROAD Date Received: 11/01/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
Benzo(a)pyrene	390		ug/kg	140	--	1
Benzo(b)fluoranthene	570		ug/kg	100	--	1
Benzo(k)fluoranthene	170		ug/kg	100	--	1
Chrysene	410		ug/kg	100	--	1
Acenaphthylene	ND		ug/kg	140	--	1
Anthracene	160		ug/kg	100	--	1
Benzo(ghi)perylene	240		ug/kg	140	--	1
Fluorene	ND		ug/kg	180	--	1
Phenanthrene	530		ug/kg	100	--	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	--	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	140	--	1
Pyrene	780		ug/kg	100	--	1
Aniline	ND		ug/kg	210	--	1
4-Chloroaniline	ND		ug/kg	180	--	1
Dibenzofuran	ND		ug/kg	180	--	1
2-Methylnaphthalene	ND		ug/kg	210	--	1
Acetophenone	ND		ug/kg	180	--	1
2,4,6-Trichlorophenol	ND		ug/kg	100	--	1
2-Chlorophenol	ND		ug/kg	180	--	1
2,4-Dichlorophenol	ND		ug/kg	160	--	1
2,4-Dimethylphenol	ND		ug/kg	180	--	1
2-Nitrophenol	ND		ug/kg	380	--	1
4-Nitrophenol	ND		ug/kg	250	--	1
2,4-Dinitrophenol	ND		ug/kg	840	--	1
Pentachlorophenol	ND		ug/kg	350	--	1
Phenol	ND		ug/kg	180	--	1
2-Methylphenol	ND		ug/kg	180	--	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	--	1
2,4,5-Trichlorophenol	ND		ug/kg	180	--	1
Pyridine	ND		ug/kg	190	--	1

Project Name: WYNN BOSTON HARBOR **Lab Number:** L1844736

Project Number: 171521.52 **Report Date:** 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01 Date Collected: 11/01/18 08:30

Client ID: CRANE MAT ROAD Date Received: 11/01/18

Sample Location: 1 HORIZON WAY, EVERETT, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		30-130
Phenol-d6	80		30-130
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	71		30-130
2,4,6-Tribromophenol	75		30-130
4-Terphenyl-d14	52		30-130

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 11/03/18 23:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1175345-1					
Acenaphthene	ND		ug/kg	130	--
1,2,4-Trichlorobenzene	ND		ug/kg	160	--
Hexachlorobenzene	ND		ug/kg	99	--
Bis(2-chloroethyl)ether	ND		ug/kg	150	--
2-Chloronaphthalene	ND		ug/kg	160	--
1,2-Dichlorobenzene	ND		ug/kg	160	--
1,3-Dichlorobenzene	ND		ug/kg	160	--
1,4-Dichlorobenzene	ND		ug/kg	160	--
3,3'-Dichlorobenzidine	ND		ug/kg	160	--
2,4-Dinitrotoluene	ND		ug/kg	160	--
2,6-Dinitrotoluene	ND		ug/kg	160	--
Azobenzene	ND		ug/kg	160	--
Fluoranthene	ND		ug/kg	99	--
4-Bromophenyl phenyl ether	ND		ug/kg	160	--
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	--
Bis(2-chloroethoxy)methane	ND		ug/kg	180	--
Hexachlorobutadiene	ND		ug/kg	160	--
Hexachloroethane	ND		ug/kg	130	--
Isophorone	ND		ug/kg	150	--
Naphthalene	ND		ug/kg	160	--
Nitrobenzene	ND		ug/kg	150	--
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	--
Butyl benzyl phthalate	ND		ug/kg	160	--
Di-n-butylphthalate	ND		ug/kg	160	--
Di-n-octylphthalate	ND		ug/kg	160	--
Diethyl phthalate	ND		ug/kg	160	--
Dimethyl phthalate	ND		ug/kg	160	--
Benzo(a)anthracene	ND		ug/kg	99	--
Benzo(a)pyrene	ND		ug/kg	130	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 11/03/18 23:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1175345-1					
Benzo(b)fluoranthene	ND		ug/kg	99	--
Benzo(k)fluoranthene	ND		ug/kg	99	--
Chrysene	ND		ug/kg	99	--
Acenaphthylene	ND		ug/kg	130	--
Anthracene	ND		ug/kg	99	--
Benzo(ghi)perylene	ND		ug/kg	130	--
Fluorene	ND		ug/kg	160	--
Phenanthrene	ND		ug/kg	99	--
Dibenzo(a,h)anthracene	ND		ug/kg	99	--
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	--
Pyrene	ND		ug/kg	99	--
Aniline	ND		ug/kg	200	--
4-Chloroaniline	ND		ug/kg	160	--
Dibenzofuran	ND		ug/kg	160	--
2-Methylnaphthalene	ND		ug/kg	200	--
Acetophenone	ND		ug/kg	160	--
2,4,6-Trichlorophenol	ND		ug/kg	99	--
2-Chlorophenol	ND		ug/kg	160	--
2,4-Dichlorophenol	ND		ug/kg	150	--
2,4-Dimethylphenol	ND		ug/kg	160	--
2-Nitrophenol	ND		ug/kg	360	--
4-Nitrophenol	ND		ug/kg	230	--
2,4-Dinitrophenol	ND		ug/kg	790	--
Pentachlorophenol	ND		ug/kg	330	--
Phenol	ND		ug/kg	160	--
2-Methylphenol	ND		ug/kg	160	--
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	--
2,4,5-Trichlorophenol	ND		ug/kg	160	--
Pyridine	ND		ug/kg	180	--

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8270D
Analytical Date: 11/03/18 23:40
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:10

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01 Batch: WG1175345-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	91		30-130
Phenol-d6	87		30-130
Nitrobenzene-d5	89		30-130
2-Fluorobiphenyl	90		30-130
2,4,6-Tribromophenol	112		30-130
4-Terphenyl-d14	92		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1175345-2 WG1175345-3								
Acenaphthene	79		85		40-140	7		30
1,2,4-Trichlorobenzene	77		78		40-140	1		30
Hexachlorobenzene	88		94		40-140	7		30
Bis(2-chloroethyl)ether	73		75		40-140	3		30
2-Chloronaphthalene	82		85		40-140	4		30
1,2-Dichlorobenzene	72		79		40-140	9		30
1,3-Dichlorobenzene	73		74		40-140	1		30
1,4-Dichlorobenzene	73		75		40-140	3		30
3,3'-Dichlorobenzidine	70		75		40-140	7		30
2,4-Dinitrotoluene	95		102		40-140	7		30
2,6-Dinitrotoluene	92		97		40-140	5		30
Azobenzene	78		84		40-140	7		30
Fluoranthene	84		91		40-140	8		30
4-Bromophenyl phenyl ether	88		94		40-140	7		30
Bis(2-chloroisopropyl)ether	74		74		40-140	0		30
Bis(2-chloroethoxy)methane	76		78		40-140	3		30
Hexachlorobutadiene	79		83		40-140	5		30
Hexachloroethane	76		76		40-140	0		30
Isophorone	80		80		40-140	0		30
Naphthalene	78		81		40-140	4		30
Nitrobenzene	79		81		40-140	3		30
Bis(2-ethylhexyl)phthalate	89		96		40-140	8		30
Butyl benzyl phthalate	89		98		40-140	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1175345-2 WG1175345-3								
Di-n-butylphthalate	86		92		40-140	7		30
Di-n-octylphthalate	91		100		40-140	9		30
Diethyl phthalate	82		89		40-140	8		30
Dimethyl phthalate	84		89		40-140	6		30
Benzo(a)anthracene	80		86		40-140	7		30
Benzo(a)pyrene	89		99		40-140	11		30
Benzo(b)fluoranthene	87		96		40-140	10		30
Benzo(k)fluoranthene	91		98		40-140	7		30
Chrysene	80		88		40-140	10		30
Acenaphthylene	83		87		40-140	5		30
Anthracene	83		89		40-140	7		30
Benzo(ghi)perylene	85		90		40-140	6		30
Fluorene	82		87		40-140	6		30
Phenanthrene	79		85		40-140	7		30
Dibenzo(a,h)anthracene	84		89		40-140	6		30
Indeno(1,2,3-cd)pyrene	86		91		40-140	6		30
Pyrene	84		90		40-140	7		30
Aniline	58		59		40-140	2		30
4-Chloroaniline	51		53		40-140	4		30
Dibenzofuran	81		87		40-140	7		30
2-Methylnaphthalene	80		81		40-140	1		30
Acetophenone	81		83		40-140	2		30
2,4,6-Trichlorophenol	90		91		30-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG1175345-2 WG1175345-3								
2-Chlorophenol	81		82		30-130	1		30
2,4-Dichlorophenol	88		88		30-130	0		30
2,4-Dimethylphenol	88		90		30-130	2		30
2-Nitrophenol	95		94		30-130	1		30
4-Nitrophenol	88		95		30-130	8		30
2,4-Dinitrophenol	91		101		30-130	10		30
Pentachlorophenol	92		101		30-130	9		30
Phenol	79		80		30-130	1		30
2-Methylphenol	85		86		30-130	1		30
3-Methylphenol/4-Methylphenol	86		89		30-130	3		30
2,4,5-Trichlorophenol	90		96		30-130	6		30
Pyridine	64		67		30-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		85		30-130
Phenol-d6	83		84		30-130
Nitrobenzene-d5	86		87		30-130
2-Fluorobiphenyl	84		88		30-130
2,4,6-Tribromophenol	104		111		30-130
4-Terphenyl-d14	84		90		30-130

PETROLEUM HYDROCARBONS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1844736
Project Number: 171521.52
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01 D
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 11/03/18 15:35
Analyst: DG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	178000		ug/kg	68200	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		40-140

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 11/03/18 16:49
Analyst: DG

Extraction Method: EPA 3546
Extraction Date: 11/02/18 14:08

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1175373-1					
TPH	ND		ug/kg	31700	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1175373-2								
TPH	88		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	91				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1844736
Report Date: 11/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1175373-3 QC Sample: L1844736-01 Client ID: CRANE MAT ROAD						
TPH	178000	168000	ug/kg	6		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	94		92		40-140

PCBS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1844736
Project Number: 171521.52
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8082A
Analytical Date: 11/06/18 21:53
Analyst: HT
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 11:42
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Polychlorinated Biphenyls - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	--	1	A
Aroclor 1221	ND		ug/kg	36.1	--	1	A
Aroclor 1232	ND		ug/kg	36.1	--	1	A
Aroclor 1242	ND		ug/kg	36.1	--	1	A
Aroclor 1248	ND		ug/kg	36.1	--	1	A
Aroclor 1254	95.8		ug/kg	36.1	--	1	B
Aroclor 1260	ND		ug/kg	36.1	--	1	A
Aroclor 1262	65.3		ug/kg	36.1	--	1	B
Aroclor 1268	ND		ug/kg	36.1	--	1	A
PCBs, Total	161		ug/kg	36.1	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	73		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8082A
Analytical Date: 11/04/18 16:46
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 11/02/18 11:42
Cleanup Method: EPA 3665A
Cleanup Date: 11/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Polychlorinated Biphenyls - Westborough Lab for sample(s): 01 Batch: WG1175314-1						
Aroclor 1016	ND		ug/kg	32.4	--	A
Aroclor 1221	ND		ug/kg	32.4	--	A
Aroclor 1232	ND		ug/kg	32.4	--	A
Aroclor 1242	ND		ug/kg	32.4	--	A
Aroclor 1248	ND		ug/kg	32.4	--	A
Aroclor 1254	ND		ug/kg	32.4	--	A
Aroclor 1260	ND		ug/kg	32.4	--	A
Aroclor 1262	ND		ug/kg	32.4	--	A
Aroclor 1268	ND		ug/kg	32.4	--	A
PCBs, Total	ND		ug/kg	32.4	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	81		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Polychlorinated Biphenyls - Westborough Lab Associated sample(s): 01 Batch: WG1175314-2 WG1175314-3									
Aroclor 1016	73		76		40-140	4		30	A
Aroclor 1260	68		69		40-140	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	B
Decachlorobiphenyl	78		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		71		30-150	A
Decachlorobiphenyl	77		77		30-150	A

PESTICIDES

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA

Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8081B
Analytical Date: 11/03/18 15:15
Analyst: KEG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:02
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Organochlorine Pesticides - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	--	1	A
Lindane	ND		ug/kg	0.569	--	1	A
Alpha-BHC	ND		ug/kg	0.711	--	1	A
Beta-BHC	ND		ug/kg	1.71	--	1	A
Heptachlor	ND		ug/kg	0.854	--	1	A
Aldrin	ND		ug/kg	1.71	--	1	A
Heptachlor epoxide	ND		ug/kg	3.20	--	1	A
Endrin	ND		ug/kg	0.711	--	1	A
Endrin ketone	ND		ug/kg	1.71	--	1	A
Dieldrin	ND		ug/kg	1.07	--	1	A
4,4'-DDE	ND		ug/kg	1.71	--	1	A
4,4'-DDD	ND		ug/kg	1.71	--	1	A
4,4'-DDT	6.30	PI	ug/kg	3.20	--	1	A
Endosulfan I	ND		ug/kg	1.71	--	1	A
Endosulfan II	ND		ug/kg	1.71	--	1	A
Endosulfan sulfate	ND		ug/kg	0.711	--	1	A
Methoxychlor	ND		ug/kg	3.20	--	1	A
Chlordane	ND		ug/kg	13.9	--	1	A
Hexachlorobenzene	ND		ug/kg	1.71	--	1	A
Toxaphene	ND		ug/kg	32.0	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	115		30-150	B
Decachlorobiphenyl	119		30-150	B
2,4,5,6-Tetrachloro-m-xylene	139		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 97,8151A
Analytical Date: 11/04/18 21:28
Analyst: DGM
Percent Solids: 92%
Methylation Date: 11/03/18 10:08
Extraction Method: EPA 8151A
Extraction Date: 11/02/18 01:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
MCP Chlorinated Herbicides - Westborough Lab							
MCPP	ND		ug/kg	3600	--	1	A
MCPA	ND		ug/kg	3600	--	1	A
Dalapon	ND		ug/kg	36	--	1	A
Dicamba	ND		ug/kg	36	--	1	A
Dichloroprop	ND		ug/kg	36	--	1	A
2,4-D	ND		ug/kg	36	--	1	A
2,4-DB	ND		ug/kg	36	--	1	A
2,4,5-T	ND		ug/kg	36	--	1	A
2,4,5-TP (Silvex)	ND		ug/kg	36	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	81		30-150	B

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8151A
Analytical Date: 11/04/18 17:52
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 11/01/18 02:29

Methylation Date: 11/02/18 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Chlorinated Herbicides - Westborough Lab for sample(s): 01 Batch: WG1174615-1						
MCPP	ND		ug/kg	3200	--	A
MCPA	ND		ug/kg	3200	--	A
Dalapon	ND		ug/kg	32	--	A
Dicamba	ND		ug/kg	32	--	A
Dichloroprop	ND		ug/kg	32	--	A
2,4-D	ND		ug/kg	32	--	A
2,4-DB	ND		ug/kg	32	--	A
2,4,5-T	ND		ug/kg	32	--	A
2,4,5-TP (Silvex)	ND		ug/kg	32	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	95		30-150	B

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8081B
Analytical Date: 11/03/18 14:00
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 11/02/18 13:02
Cleanup Method: EPA 3620B
Cleanup Date: 11/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
MCP Organochlorine Pesticides - Westborough Lab for sample(s): 01 Batch: WG1175342-1						
Delta-BHC	ND		ug/kg	1.54	--	A
Lindane	ND		ug/kg	0.515	--	A
Alpha-BHC	ND		ug/kg	0.644	--	A
Beta-BHC	ND		ug/kg	1.54	--	A
Heptachlor	ND		ug/kg	0.772	--	A
Aldrin	ND		ug/kg	1.54	--	A
Heptachlor epoxide	ND		ug/kg	2.90	--	A
Endrin	ND		ug/kg	0.644	--	A
Endrin ketone	ND		ug/kg	1.54	--	A
Dieldrin	ND		ug/kg	0.965	--	A
4,4'-DDE	ND		ug/kg	1.54	--	A
4,4'-DDD	ND		ug/kg	1.54	--	A
4,4'-DDT	ND		ug/kg	2.90	--	A
Endosulfan I	ND		ug/kg	1.54	--	A
Endosulfan II	ND		ug/kg	1.54	--	A
Endosulfan sulfate	ND		ug/kg	0.644	--	A
Methoxychlor	ND		ug/kg	2.90	--	A
Chlordane	ND		ug/kg	12.5	--	A
Hexachlorobenzene	ND		ug/kg	1.54	--	A
Toxaphene	ND		ug/kg	29.0	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	56		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Chlorinated Herbicides - Westborough Lab Associated sample(s): 01 Batch: WG1174615-2 WG1174615-3									
MCPP	103		106		40-140	3		30	A
MCPA	100		101		40-140	1		30	A
Dalapon	76		89		40-140	16		30	A
Dicamba	86		89		40-140	3		30	A
Dichloroprop	124		108		40-140	14		30	A
2,4-D	107		107		40-140	0		30	A
2,4-DB	84		76		40-140	10		30	A
2,4,5-T	80		81		40-140	1		30	A
2,4,5-TP (Silvex)	74		77		40-140	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		95		30-150	A
DCAA	92		79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1175342-2 WG1175342-3									
Delta-BHC	87		90		40-140	3		30	A
Lindane	84		84		40-140	0		30	A
Alpha-BHC	88		88		40-140	0		30	A
Beta-BHC	91		92		40-140	1		30	A
Heptachlor	58		53		40-140	9		30	A
Aldrin	77		76		40-140	1		30	A
Heptachlor epoxide	87		86		40-140	1		30	A
Endrin	83		84		40-140	1		30	A
Endrin ketone	88		88		40-140	0		30	A
Dieldrin	88		89		40-140	1		30	A
4,4'-DDE	83		80		40-140	4		30	A
4,4'-DDD	89		90		40-140	1		30	A
4,4'-DDT	83		82		40-140	1		30	A
Endosulfan I	73		75		40-140	3		30	A
Endosulfan II	84		83		40-140	1		30	A
Endosulfan sulfate	92		90		40-140	2		30	A
Methoxychlor	88		88		40-140	0		30	A
Hexachlorobenzene	87		86		40-140	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1175342-2 WG1175342-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		90		30-150	B
Decachlorobiphenyl	93		96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		91		30-150	A
Decachlorobiphenyl	59		55		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
MCP Organochlorine Pesticides - Westborough Lab Associated sample(s): 01 Batch: WG1175342-4 WG1175342-5									
Toxaphene	109		107		40-140	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		87		30-150	B
Decachlorobiphenyl	96		94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		91		30-150	A
Decachlorobiphenyl	58		60		30-150	A

METALS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1844736
Project Number: 171521.52
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Arsenic, Total	18.1		mg/kg	0.428	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Barium, Total	29.1		mg/kg	0.428	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Cadmium, Total	ND		mg/kg	0.428	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Chromium, Total	7.69		mg/kg	0.428	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Lead, Total	109		mg/kg	2.14	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Mercury, Total	0.715		mg/kg	0.068	--	1	11/02/18 08:00	11/02/18 23:45	EPA 7471B	97,7471B	EA
Selenium, Total	ND		mg/kg	2.14	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB
Silver, Total	ND		mg/kg	0.428	--	1	11/02/18 07:00	11/02/18 15:20	EPA 3050B	97,6010D	AB

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1175145-1										
Mercury, Total	ND		mg/kg	0.083	--	1	11/02/18 08:00	11/02/18 20:31	97,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1175149-1										
Arsenic, Total	ND		mg/kg	0.400	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Barium, Total	ND		mg/kg	0.400	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Chromium, Total	ND		mg/kg	0.400	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Lead, Total	ND		mg/kg	2.00	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Selenium, Total	ND		mg/kg	2.00	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB
Silver, Total	ND		mg/kg	0.400	--	1	11/02/18 07:00	11/02/18 14:51	97,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1175145-2 WG1175145-3 SRM Lot Number: D102-540								
Mercury, Total	119		119		65-134	0		30
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1175149-2 WG1175149-3 SRM Lot Number: D102-540								
Arsenic, Total	108		115		83-117	6		30
Barium, Total	104		97		83-118	7		30
Cadmium, Total	105		108		83-118	3		30
Chromium, Total	104		101		83-117	3		30
Lead, Total	105		112		82-118	6		30
Selenium, Total	110		115		79-121	4		30
Silver, Total	113		108		80-120	5		30

INORGANICS
&
MISCELLANEOUS

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	11/05/18 10:46	1,1030	GD

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

SAMPLE RESULTS

Lab ID: L1844736-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Specific Conductance @ 25 C	510		umhos/cm	10	--	1	-	11/02/18 04:53	1,9050A	MA
Solids, Total	92.0		%	0.100	NA	1	-	11/02/18 12:45	121,2540G	RI
pH (H)	7.8		SU	-	NA	1	-	11/01/18 23:24	1,9045D	AS
Flash Point	>150		deg F	70	NA	1	-	11/04/18 15:20	1,1010A	AG
Cyanide, Reactive	ND		mg/kg	10	--	1	11/03/18 11:05	11/03/18 12:49	125,7.3	RM
Sulfide, Reactive	ND		mg/kg	10	--	1	11/03/18 11:05	11/03/18 12:28	125,7.3	RM

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1844736
Report Date: 11/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1175656-1										
Sulfide, Reactive	ND		mg/kg	10	--	1	11/03/18 11:05	11/03/18 12:27	125,7.3	RM
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1175659-1										
Cyanide, Reactive	ND		mg/kg	10	--	1	11/03/18 11:05	11/03/18 12:48	125,7.3	RM

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1175058-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1175216-3								
Specific Conductance	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1175656-2								
Sulfide, Reactive	75		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1175659-2								
Cyanide, Reactive	48		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1175830-1								
Flash Point	100		-		96-104	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1844736

Report Date: 11/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1175058-2 QC Sample: L1844736-01 Client ID: CRANE MAT ROAD						
pH (H)	7.8	7.8	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1175216-4 QC Sample: L1844736-01 Client ID: CRANE MAT ROAD						
Specific Conductance @ 25 C	510	440	umhos/cm	15		20

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1844736
Report Date: 11/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1844736-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		MCP-8260HLW-10(14)
L1844736-01B	Vial water preserved	A	NA		3.5	Y	Absent	02-NOV-18 00:07	MCP-8260HLW-10(14)
L1844736-01C	Vial water preserved	A	NA		3.5	Y	Absent	02-NOV-18 00:07	MCP-8260HLW-10(14)
L1844736-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L1844736-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1844736-01F	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)
L1844736-01G	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		IGNIT-1030(14),MCP-8082-10(365),REACTS(14),MCP-8081-10(14),MCP-8151-10(14),MCP-8270-10(14),FLASH(),PH-9045(1),REACTCN(14),TPH-DRO-D(14),COND-9050(28)

*Values in parentheses indicate holding time in days

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1844736
Project Number:	171521.52	**Report Date:**	11/07/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1844736
Project Number:	171521.52	**Report Date:**	11/07/18

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 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 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1844736
Project Number:	171521.52	**Report Date:**	11/07/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

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 624/624.1: 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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; 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, SM4500Cl-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**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, 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: Al, 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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL — World Class Chemistry

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 11/1/18

ALPHA Job #: L1844736

Project Information

Project Name: Wynn Boston Harbor

Project Location: 1 Horizon Way, Everett MA

Project #: 01.0171521.52

Project Manager: Neal Carey

ALPHA Quote #:

Client Information

Client: GZA

Address: 249 Vanderbilt Ave

Norwood, MA

Phone: (781) 278-3700

Fax: (781) 278-5752

Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: Standard Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP 20x rule applies for MCP-14 metals

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxiphrene	Conductivity, Flashpoint	Sulfate, Cyanide (Reactivity)						Sample Specific Comments	TOTAL # BOTTLES
44736-01	CRANE MAT ROAD	11/1/18	0830	S	LWP	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
					Container Type	G	-	-	-	-	-	-	-	-	-	-	-		
					Preservative	-	-	-	-	-	-	-	-	-	-	-	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
L. Palush [signature]	11/1/18 1430	[signature] AAL	11/1/18 1430
[signature] 11/1/18	1805	[signature] AAL	11/1/18 1805

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I) (rev. 5-JAN-12)

Method Blank Summary
Form 4
VOLATILES

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1844736
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Lab Sample ID	: WG1176516-5	**Lab File ID**	: V00181106A05
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 11/06/18 08:07

Client Sample No.	Lab Sample ID	Analysis Date
WG1176516-3LCS	WG1176516-3	11/06/18 06:49
WG1176516-4LCSD	WG1176516-4	11/06/18 07:15
CRANE MAT ROAD	L1844736-01	11/06/18 13:18

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1844736		
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52		
Instrument ID	: VOA100	**Calibration Date**	: 11/06/18 06:49		
Lab File ID	: V00181106A02	**Init. Calib. Date(s)**	: 10/29/18	10/30/18	
Sample No	: WG1176516-2	**Init. Calib. Times**	: 23:54	14:18	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.227	0.255	-	-12.3	20	127	0
Chloromethane	0.32	0.243	-	24.1*	20	82	0
Vinyl chloride	0.29	0.278	-	4.1	20	108	0
Bromomethane	20	31.284	-	-56.4*	20	207	0
Chloroethane	0.19	0.183	-	3.7	20	108	0
Trichlorofluoromethane	0.415	0.411	-	1	20	114	0
Ethyl ether	0.125	0.12	-	4	20	103	0
1,1-Dichloroethene	0.221	0.219	-	0.9	20	111	0
Carbon disulfide	0.717	0.641	-	10.6	20	105	0
Freon-113	0.215	0.221	-	-2.8	20	115	0
Acrolein	0.021	0.019*	-	9.5	20	98	0
Methylene chloride	0.27	0.24	-	11.1	20	102	0
Acetone	20	15.801	-	21*	20	88	0
trans-1,2-Dichloroethene	0.248	0.244	-	1.6	20	108	0
Methyl acetate	0.104	0.084*	-	19.2	20	90	0
Methyl tert-butyl ether	0.596	0.555	-	6.9	20	100	0
tert-Butyl alcohol	0.018	0.016*	-	11.1	20	89	0
Diisopropyl ether	0.683	0.62	-	9.2	20	98	0
1,1-Dichloroethane	0.453	0.431	-	4.9	20	104	0
Halothane	0.187	0.184	-	1.6	20	109	0
Acrylonitrile	0.048	0.041*	-	14.6	20	88	0
Ethyl tert-butyl ether	0.68	0.63	-	7.4	20	99	0
Vinyl acetate	0.37	0.345	-	6.8	20	94	0
cis-1,2-Dichloroethene	0.27	0.264	-	2.2	20	106	0
2,2-Dichloropropane	0.382	0.366	-	4.2	20	106	0
Bromochloromethane	0.117	0.119	-	-1.7	20	105	0
Cyclohexane	0.368	0.353	-	4.1	20	106	0
Chloroform	0.463	0.445	-	3.9	20	105	0
Ethyl acetate	0.156	0.133	-	14.7	20	91	0
Carbon tetrachloride	0.359	0.348	-	3.1	20	108	0
Tetrahydrofuran	20	19.358	-	3.2	20	92	0
Dibromofluoromethane	0.252	0.257	-	-2	20	111	0
1,1,1-Trichloroethane	0.381	0.376	-	1.3	20	107	0
2-Butanone	20	16.115	-	19.4	20	83	0
1,1-Dichloropropene	0.313	0.312	-	0.3	20	107	0
Benzene	0.974	0.936	-	3.9	20	104	0
tert-Amyl methyl ether	0.62	0.579	-	6.6	20	100	0
1,2-Dichloroethane-d4	0.247	0.237	-	4	20	107	0
1,2-Dichloroethane	0.297	0.28	-	5.7	20	99	0
Methyl cyclohexane	0.397	0.394	-	0.8	20	109	0
Trichloroethene	0.253	0.247	-	2.4	20	107	0
Dibromomethane	0.132	0.128	-	3	20	101	0
1,2-Dichloropropane	0.244	0.232	-	4.9	20	101	0
2-Chloroethyl vinyl ether	0.111	0.099	-	10.8	20	90	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.	Lab Number	: L1844736		
Project Name	: WYNN BOSTON HARBOR	Project Number	: 171521.52		
Instrument ID	: VOA100	Calibration Date	: 11/06/18 06:49		
Lab File ID	: V00181106A02	Init. Calib. Date(s)	: 10/29/18	10/30/18	
Sample No	: WG1176516-2	Init. Calib. Times	: 23:54	14:18	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.329	0.317	-	3.6	20	102	0
1,4-Dioxane	0.00165	0.00162*	-	1.8	20	95	0
cis-1,3-Dichloropropene	0.374	0.367	-	1.9	20	100	0
Chlorobenzene-d5	1	1	-	0	20	111	0
Toluene-d8	1.371	1.376	-	-0.4	20	110	0
Toluene	0.875	0.822	-	6.1	20	102	0
4-Methyl-2-pentanone	0.083	0.077*	-	7.2	20	90	0
Tetrachloroethene	0.348	0.354	-	-1.7	20	109	0
trans-1,3-Dichloropropene	0.461	0.441	-	4.3	20	98	0
Ethyl methacrylate	0.336	0.305	-	9.2	20	90	0
1,1,2-Trichloroethane	0.223	0.215	-	3.6	20	100	0
Chlorodibromomethane	0.334	0.323	-	3.3	20	102	0
1,3-Dichloropropane	0.454	0.434	-	4.4	20	100	0
1,2-Dibromoethane	0.258	0.249	-	3.5	20	101	0
2-Hexanone	0.153	0.12	-	21.6*	20	87	0
Chlorobenzene	0.974	0.937	-	3.8	20	104	0
Ethylbenzene	1.689	1.577	-	6.6	20	103	0
1,1,1,2-Tetrachloroethane	0.343	0.336	-	2	20	104	0
p/m Xylene	0.655	0.621	-	5.2	20	103	0
o Xylene	0.629	0.599	-	4.8	20	103	0
Styrene	1.042	0.972	-	6.7	20	100	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	110	0
Bromoform	0.392	0.37	-	5.6	20	98	0
Isopropylbenzene	3.367	3.219	-	4.4	20	104	0
4-Bromofluorobenzene	0.994	0.984	-	1	20	109	0
Bromobenzene	0.768	0.736	-	4.2	20	102	0
n-Propylbenzene	3.972	3.747	-	5.7	20	103	0
1,4-Dichlorobutane	0.885	0.786	-	11.2	20	94	0
1,1,2,2-Tetrachloroethane	0.658	0.635	-	3.5	20	100	0
4-Ethyltoluene	3.268	3.12	-	4.5	20	103	0
2-Chlorotoluene	2.42	2.421	-	-0	20	109	0
1,3,5-Trimethylbenzene	2.872	2.731	-	4.9	20	104	0
1,2,3-Trichloropropane	0.529	0.487	-	7.9	20	96	0
trans-1,4-Dichloro-2-buten	0.172	0.165	-	4.1	20	96	0
4-Chlorotoluene	2.367	2.211	-	6.6	20	101	0
tert-Butylbenzene	2.386	2.27	-	4.9	20	104	0
1,2,4-Trimethylbenzene	2.837	2.676	-	5.7	20	102	0
sec-Butylbenzene	3.642	3.461	-	5	20	104	0
p-Isopropyltoluene	3.047	2.918	-	4.2	20	105	0
1,3-Dichlorobenzene	1.495	1.435	-	4	20	104	0
1,4-Dichlorobenzene	1.54	1.459	-	5.3	20	102	0
p-Diethylbenzene	1.765	1.695	-	4	20	104	0
n-Butylbenzene	2.853	2.748	-	3.7	20	106	0
1,2-Dichlorobenzene	1.37	1.32	-	3.6	20	103	0
1,2,4,5-Tetramethylbenzene	2.761	2.605	-	5.7	20	102	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: GZA GeoEnvironmental, Inc.		**Lab Number**	: L1844736	
Project Name	: WYNN BOSTON HARBOR		**Project Number**	: 171521.52	
Instrument ID	: VOA100		**Calibration Date**	: 11/06/18 06:49	
Lab File ID	: V00181106A02		**Init. Calib. Date(s)**	: 10/29/18	10/30/18
Sample No	: WG1176516-2		**Init. Calib. Times**	: 23:54	14:18
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	0.094	0.084	-	10.6	20	96	0
1,3,5-Trichlorobenzene	0.987	0.97	-	1.7	20	105	0
Hexachlorobutadiene	0.454	0.432	-	4.8	20	103	0
1,2,4-Trichlorobenzene	0.879	0.883	-	-0.5	20	105	0
Naphthalene	1.993	1.828	-	8.3	20	98	0
1,2,3-Trichlorobenzene	0.779	0.768	-	1.4	20	103	0

* Value outside of QC limits.

Performance Evaluation Mixture Report
Form 15

Client	: GZA GeoEnvironmental, Inc.	**Lab Number**	: L1844736
Project Name	: WYNN BOSTON HARBOR	**Project Number**	: 171521.52
Instrument ID	: PEST10	**Analysis Date**	: 11/03/18 08:03
PEM Standard	: R1128642-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	3383576.95267	2314931.70117
Endrin	293921656.03968	183044570.2016
4,4'-DDD	5105194.24568	3295150.44691
4,4'-DDT	481354097.69786	325477253.26924
Endrin Aldehyde	2586520.86239	1100581.51852
Endrin Ketone	6946505.26176	5341219.14284

Parameter	%Breakdown 1	%Breakdown 2
Endrin	3.14	3.40
DDT	1.73	1.69

ANALYTICAL REPORT

Lab Number:	L1845121
Client:	GZA GeoEnvironmental, Inc. 249 Vanderbilt Ave Norwood, MA 02062
ATTN:	Matthew Smith
Phone:	(781) 278-5830
Project Name:	WYNN BOSTON HARBOR
Project Number:	171521.52
Report Date:	11/12/18

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

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1845121
Report Date: 11/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1845121-01	CRANE MAT ROAD	SOIL	1 HORIZON WAY, EVERETT, MA	11/01/18 08:30	11/01/18

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1845121
Report Date: 11/12/18

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.

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.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 11/12/18

METALS

Project Name: WYNN BOSTON HARBOR
Lab Number: L1845121
Project Number: 171521.52
Report Date: 11/12/18

SAMPLE RESULTS

Lab ID: L1845121-01
Client ID: CRANE MAT ROAD
Sample Location: 1 HORIZON WAY, EVERETT, MA
Sample Depth:
Matrix: Soil

Date Collected: 11/01/18 08:30
Date Received: 11/01/18
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 11/09/18 06:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	--	1	11/10/18 10:00	11/10/18 12:16	EPA 3015	1,6010D	PE

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1845121
Report Date: 11/12/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1178110-1										
Lead, TCLP	ND		mg/l	0.500	--	1	11/10/18 10:00	11/10/18 11:09	1,6010D	PE

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 11/09/18 06:13

Lab Control Sample Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1845121

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1178110-2								
Lead, TCLP	97		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1845121
Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1178110-3 QC Sample: L1845121-01 Client ID: CRANE MAT ROAD												
Lead, TCLP	ND	5.1	5.38	105		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: WYNN BOSTON HARBOR

Project Number: 171521.52

Lab Number: L1845121

Report Date: 11/12/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1178110-4 QC Sample: L1845121-01 Client ID: CRANE MAT ROAD						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52

Lab Number: L1845121
Report Date: 11/12/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1845121-01A	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		-
L1845121-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.5	Y	Absent		PB-CI(180)
L1845121-01X9	Tumble Vessel	A	NA		3.5	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1845121
Project Number:	171521.52	**Report Date:**	11/12/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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 Water-preserved 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.

Report Format: Data Usability Report

Project Name:	WYNN BOSTON HARBOR	**Lab Number:**	L1845121
Project Number:	171521.52	**Report Date:**	11/12/18

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 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 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.

Report Format: Data Usability Report

Project Name: WYNN BOSTON HARBOR
Project Number: 171521.52
Lab Number: L1845121
Report Date: 11/12/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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 624/624.1: 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: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; 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, SM4500Cl-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**, 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 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, 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: Al, 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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L1845121 CG 11/9/18

CHAIN OF COUNSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 11/1/18

ALPHA Job #: ~~L1844736~~

Project Information

Project Name: Wynn Boston Harbor

Project Location: 1 Horizon Way, Everett MA

Project #: 01.0171521.52

Project Manager: Neal Carey

ALPHA Quote #:

Client Information

Client: GZA

Address: 249 Vanderbilt Ave

Norwood, MA

Phone: (781) 278-3700

Fax: (781) 278-5752

Email: Neal.Carey@gza.com,

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☐ Standard ☒ Rush (ONLY IF PRE-APPROVED)

Due Date: Standard Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
MA-MCP	RCS-1

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please email test results to Victoria.Ward@gza.com and Neal.Carey@gza.com
TCLP 20x rule applies for MCP-14 metals

*TCLP Lead

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	MCP-14 Metals	VOC's 8260	SVOC's 8270 with Pyridine	PCB's, TPH, pH	Herbicides, Pesticides w/ Toxaphene	Conductivity, Flashpoint	Sulfide, Cyanide (Reactivity)		*				Sample Specific Comments	TOTAL # BOTTLES
45121-01	CRANE MAT ROAD	11/1/18	0830	S	LWP	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
				S		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	G	-	-	-	-	-	-	-	-	-	-	-
Preservative	-	-	-	-	-	-	-	-	-	-	-	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
L. Pa[illegible]	11/1/18 1430	T. [illegible] AAL	11/1/18 1430
T. [illegible] 11/1/18	1805	[illegible] AAL 11/1/18	1805

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I) (rev. 5-JAN-12)

Appendix D – Asbestos In Soil Laboratory Testing Reports

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January 7, 2019

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor, 01.0171521.67
CEI LAB CODE: A190237

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 7, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor, 01.0171521.67

LAB CODE: A190237

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/07/19

TOTAL SAMPLES ANALYZED: 24

SAMPLES >1% ASBESTOS:

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor, 01.0171521.67 **LAB CODE:** A190237

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
BF-1-N		A3188	Brown	Soil	None Detected
BF-1-S		A3189	Brown	Soil	None Detected
BF-1-E		A3190	Brown	Soil	None Detected
BF-1-W		A3191	Brown	Soil	None Detected
BF-2-N		A3192	Brown	Soil	Chrysotile <1%
BF-2-S		A3193	Brown	Soil	None Detected
BF-2-E		A3194	Black	Soil	None Detected
BF-2-W		A3195	Brown	Soil	None Detected
BF-3-N		A3196	Brown	Soil	None Detected
BF-3-S		A3197	Brown	Soil	None Detected
BF-3-E		A3198	Brown	Soil	None Detected
BF-3-W		A3199	Brown	Soil	None Detected
BF-4-N		A3200	Black,Brown	Soil	None Detected
BF-4-S		A3201	Black,Brown	Soil	None Detected
BF-4-E		A3202	Black,Brown	Soil	None Detected
BF-4-W		A3203	Black,Brown	Soil	None Detected
BF-5-N		A3204	Black,Brown	Soil	None Detected
BF-5-S		A3205	Black,Brown	Soil	None Detected
BF-5-E		A3206	Gray,Brown	Soil	None Detected
BF-5-W		A3207	Black,Brown	Soil	None Detected
BF-6-N		A3208	Brown,Gray	Soil	None Detected
BF-6-S		A3209	Brown,Gray	Soil	None Detected
BF-6-E		A3210	Brown,Gray	Soil	None Detected
BF-6-W		A3211	Brown,Gray	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

Lab Code: A190237
Date Received: 01-07-19
Date Analyzed: 01-07-19
Date Reported: 01-07-19

Project: Wynn Boston Harbor, 01.0171521.67

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
BF-1-N A3188	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-1-S A3189	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-1-E A3190	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-1-W A3191	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-2-N A3192	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	<1% Chrysotile
BF-2-S A3193	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-2-E A3194	Soil	Heterogeneous Black Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

Lab Code: A190237
Date Received: 01-07-19
Date Analyzed: 01-07-19
Date Reported: 01-07-19

Project: Wynn Boston Harbor, 01.0171521.67

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
BF-2-W A3195	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-3-N A3196	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-3-S A3197	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-3-E A3198	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-3-W A3199	Soil	Heterogeneous Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-4-N A3200	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-4-S A3201	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

Lab Code: A190237
Date Received: 01-07-19
Date Analyzed: 01-07-19
Date Reported: 01-07-19

Project: Wynn Boston Harbor, 01.0171521.67

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
BF-4-E A3202	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-4-W A3203	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-5-N A3204	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-5-S A3205	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-5-E A3206	Soil	Heterogeneous Gray,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-5-W A3207	Soil	Heterogeneous Black,Brown Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-6-N A3208	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

Lab Code: A190237
Date Received: 01-07-19
Date Analyzed: 01-07-19
Date Reported: 01-07-19

Project: Wynn Boston Harbor, 01.0171521.67

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
BF-6-S A3209	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-6-E A3210	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected
BF-6-W A3211	Soil	Heterogeneous Brown,Gray Non-fibrous Loose	<1%	Cellulose	100%	Soil	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Danielle Carrier

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
CEI Lab Code:	A190237 (24)
CEI Lab I.D. Range:	A3188-A3211

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Matthew Smith
Company: GZA	Email / Tel: Matthew.Smith@gza.com 781-278-3700
Address: 249 Vanderbilt Ave	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.0171521.67
Email: daniel.scanlon@gza.com	PO #: —
Tel: 781-278-3700 Fax: 781-278-5701	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☑	☐	☐	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITTATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:

Straight PLM Analysis; refer to Dr. Bai; if present, quantification is required (example: [redacted] Trace = <1%.

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	11/4/19 / 13:00	[signature]	11/7 9:10

Samples will be disposed of 30 days after analysis

A190237

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: GZA	Job Contact: Matthew Smith
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.67	Tel: 781-278-3700

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
BF-1-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-1-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-1-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-1-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-2-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-2-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-2-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-2-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-3-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-3-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-3-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-3-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-4-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-4-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-4-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-4-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-5-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-5-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-5-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-5-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-6-N	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-6-S	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-6-E	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
BF-6-W	Battery Farm Service Rd	100 CY	PLM ☑	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐
			PLM ☐	TEM ☐

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January 9, 2019

GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

CLIENT PROJECT: Wynn Boston Harbor, 01.0171521.67
CEI LAB CODE: A190443

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 9, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

AMENDED

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

GZA GeoEnvironmental

CLIENT PROJECT: Wynn Boston Harbor, 01.0171521.67

LAB CODE: A190443

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 01/09/19

TOTAL SAMPLES ANALYZED: 3

SAMPLES >1% ASBESTOS:

AMENDED

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Wynn Boston Harbor, 01.0171521.67 **LAB CODE:** A190443

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
BF-2-N-5-N		A6028	Brown	Soil	None Detected
BF-2-N-5-E		A6029	Brown	Soil	None Detected
BF-2-N-5-W		A6030	Brown	Soil	None Detected

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AMENDED

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: GZA GeoEnvironmental
249 Vanderbilt Avenue
Norwood, MA 02602

Lab Code: A190443
Date Received: 01-09-19
Date Analyzed: 01-09-19
Date Reported: 01-09-19

Project: Wynn Boston Harbor, 01.0171521.67

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
BF-2-N-5-N A6028	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
BF-2-N-5-E A6029	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected
BF-2-N-5-W A6030	Soil	Heterogeneous Brown Fibrous Loosely Bound	<1%	Cellulose	100%	Soil	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

AMENDED due to Other - Client wishes to split project into two reports

NVLAP TESTING
NVLAP LAB CODE 101768-0

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CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:	
CEI Lab Code:	A190443(a)
CEI Lab I.D. Range:	A10028 - A10033

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Matthew Smith
Company: GZA	Email / Tel: Matthew.Smith@gza.com 781-278-3700
Address: 249 Vanderbilt Ave.	Project Name: Wynn Boston Harbor
Norwood, MA 02062	Project ID#: 01.0171521.67
Email: daniel.scanlon@gza.com	PO #: ~
Tel: 781-278-3700 Fax: 781-278-5701	STATE SAMPLES COLLECTED IN: MA

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☑	☐	☐	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-15	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
TEM QUALITTATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:
- Straight PLM Analysis, refer to Dr. Bai; if present, quantification is required (example: trace = < 1%
- 10-ft samples place on hold and only run analysis when instructed

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	1/8/19 12:00	[signature]	1/9 9:20

Samples will be disposed of 30 days after analysis

A190443

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: GZA	Job Contact: Matthew smith
Project Name: Wynn Boston Harbor	
Project ID #: 01.0171521.67	Tel: 781-278-3700

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
BF-2-N-5-N	Battery Farm service Rd.	100 CY	PLM	☑	TEM	☐
BF-2-N-5-E	Battery Farm service Rd.	100 cy	PLM	☑	TEM	☐
BF-2-N-5-W	Battery Farm service Rd.	100 cy	PLM	☑	TEM	☐
BF-2-N-10-N	Battery Farm service Rd.	100 cy	PLM	☐	TEM	☐
BF-2-N-10-E	Battery Farm service Rd.	100 cy	PLM	☐	TEM	☐
BF-2-N-10-W	Battery Farm service Rd.	100 cy	PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐

Kassidy Harris

From: Matthew Smith <Matthew.Smith@gza.com>
Sent: Wednesday, January 9, 2019 2:31 PM
To: Kassidy Harris
Subject: RE: Laboratory Report for Wynn Boston Harbor, 01.0171521.67 (A190443)

EXTERNAL EMAIL*

My apologies...this email was supposed to have been forwarded to Dan Scanlon at my office for him to follow up on with you.

If there is anyway you can split the 5 foot samples and the 10 foot samples into two separate reports, that would be appreciated.

Thanks,

Matthew M. Smith, P.E., LSP
Associate Principal/Environmental Remediation Group Leader GZA | 249 Vanderbilt Avenue | Norwood, MA 02062
o: 781.278.5789 | c: 781.983.1671 | matthew.smith@gza.com | www.gza.com | LinkedIn

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P Please consider the environment before printing this e-mail.

-----Original Message-----
From: Matthew Smith
Sent: Wednesday, January 09, 2019 2:30 PM
To: 'KassidyHarris@eurofinsUS.com' <KassidyHarris@eurofinsUS.com>
Subject: RE: Laboratory Report for Wynn Boston Harbor, 01.0171521.67 (A190443)

Dan-

We were only supposed to run the 5 foot samples with the 10 foot samples on hold.

We got lucky with no detections at 10 feet. See if you can get the lab to issue the results on two separate reports.

This way we don't have to look bad to Wynn. The analytical cost is insignificant.

Matthew M. Smith, P.E., LSP
Associate Principal/Environmental Remediation Group Leader GZA | 249 Vanderbilt Avenue | Norwood, MA 02062
o: 781.278.5789 | c: 781.983.1671 | matthew.smith@gza.com | www.gza.com | LinkedIn

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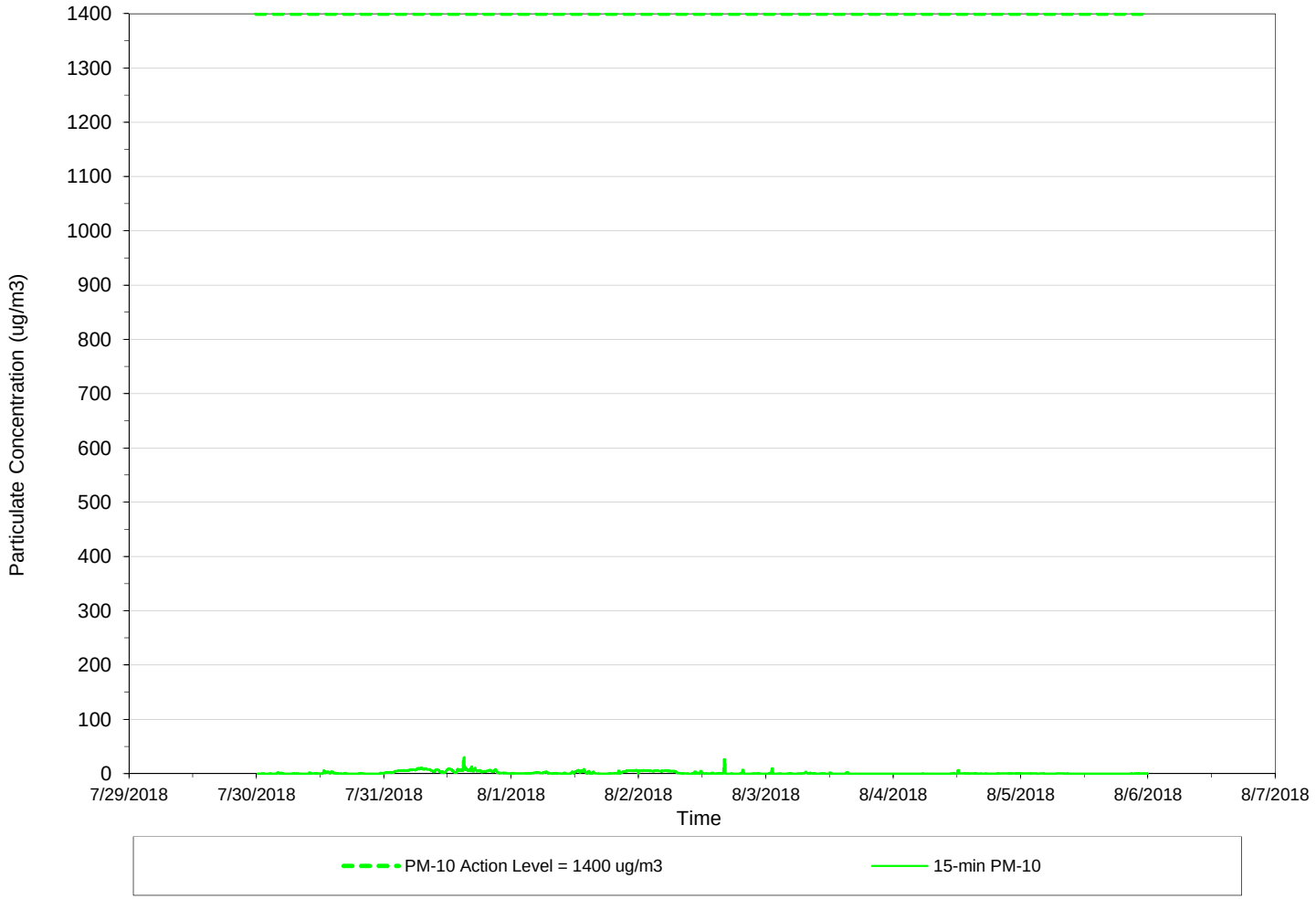
Appendix E - Air Logics Weekly Reports

Aug06,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	1.41

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
7/30/2018	5.83
7/31/2018	29.96
8/1/2018	8.38
8/2/2018	26.18
8/3/2018	9.61
8/4/2018	6.01
8/5/2018	0.38

Wind Summary Statistics	
CALM	19%
UW	56%
UW/CW	0%
CW	0%
CW/DW	0%
DW	21%
DW/CW	0%
CW/UW	3%
TOTAL	100%

Filename: C:\Users\luke.prohaske\Desktop\AL data\aug\STA3_WEEKLYAug18

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

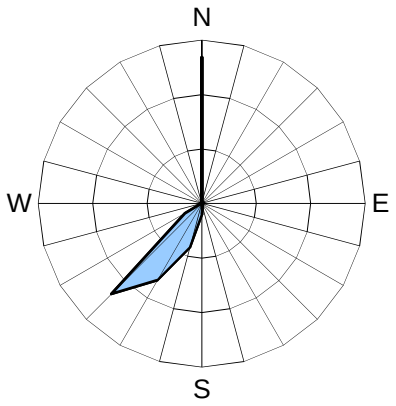

Figure 1. Wind rose for the period 7/30/2018 through 8/5/2018

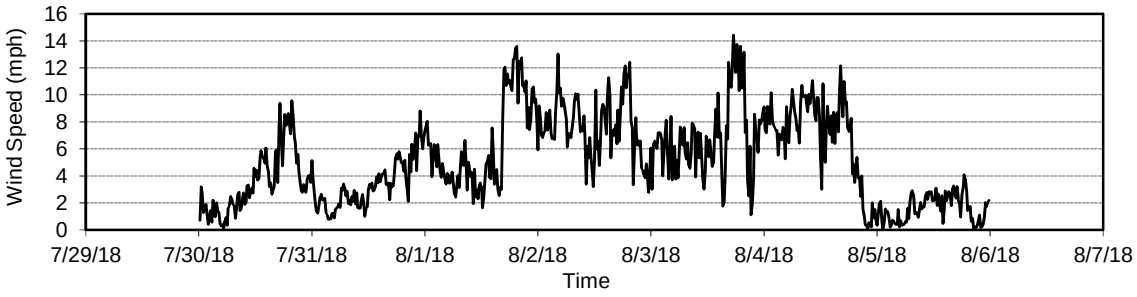

Figure 2. Wind speed for the period 7/30/2018 through 8/5/2018

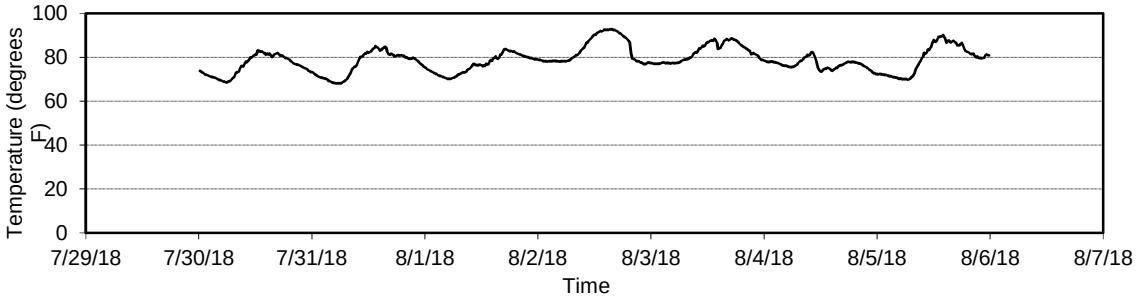

Figure 3. Temperature for the period 7/30/2018 through 8/5/2018

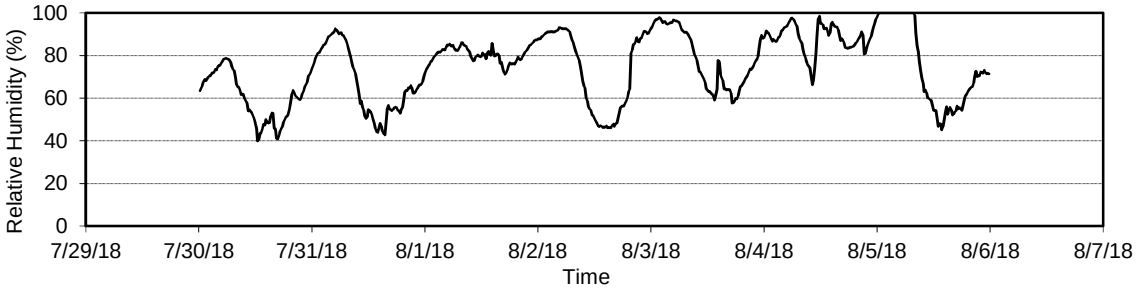

Figure 4. Relative humidity for the period 7/30/2018 through 8/5/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Aug13,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg = 6.71

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
8/6/2018	7.84
8/7/2018	30.14
8/8/2018	45.75
8/9/2018	25.52
8/10/2018	29.85
8/11/2018	33.68
8/12/2018	7.22

Wind Summary Statistics	
CALM	25%
UW	49%
UW/CW	0%
CW	0%
CW/DW	0%
DW	18%
DW/CW	0%
CW/UW	8%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

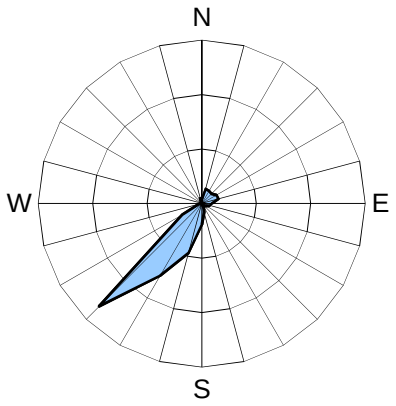

Figure 1. Wind rose for the period 8/6/2018 through 8/12/2018

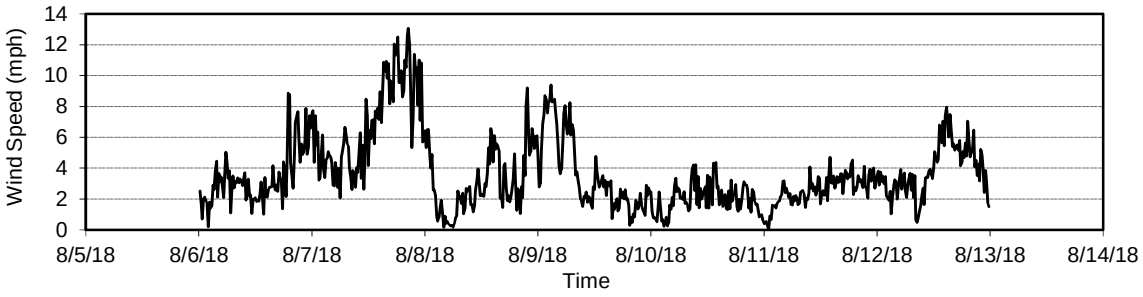

Figure 2. Wind speed for the period 8/6/2018 through 8/12/2018

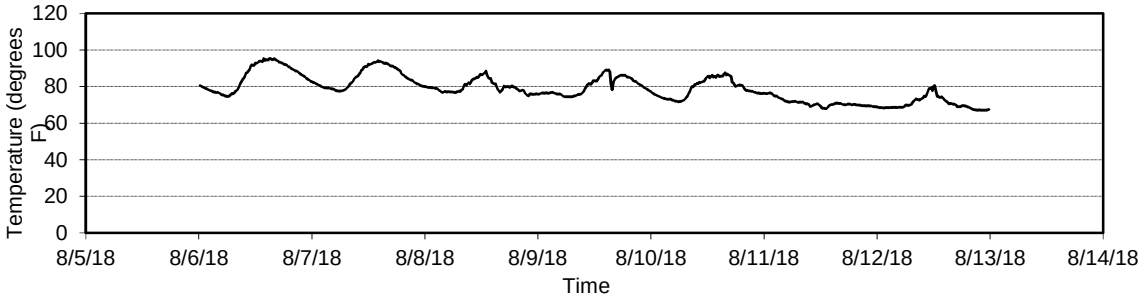

Figure 3. Temperature for the period 8/6/2018 through 8/12/2018

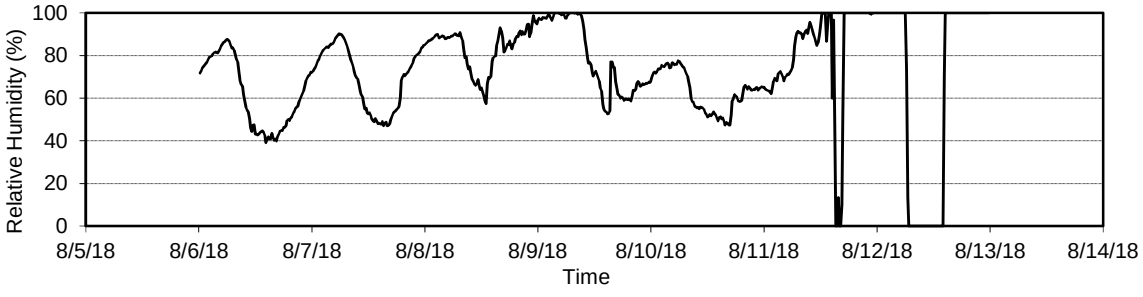

Figure 4. Relative humidity for the period 8/6/2018 through 8/12/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Aug20,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg = 6.20

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
8/13/2018	31.66
8/14/2018	11.14
8/15/2018	9.42
8/16/2018	55.25
8/17/2018	25.42
8/18/2018	0.46
8/19/2018	0.53

Wind Summary Statistics	
CALM	13%
UW	29%
UW/CW	0%
CW	0%
CW/DW	0%
DW	41%
DW/CW	0%
CW/UW	18%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

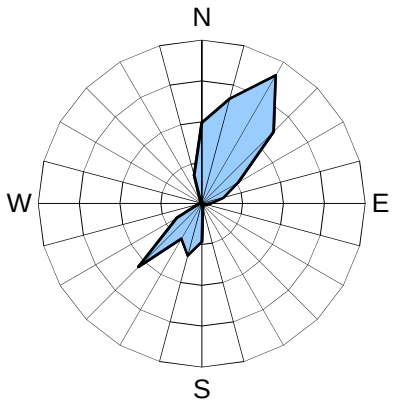


Figure 1. Wind rose for the period 8/13/2018 through 8/19/2018

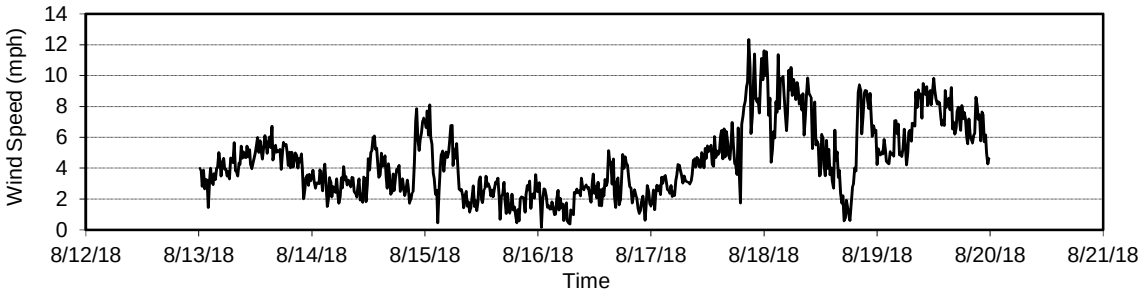


Figure 2. Wind speed for the period 8/13/2018 through 8/19/2018

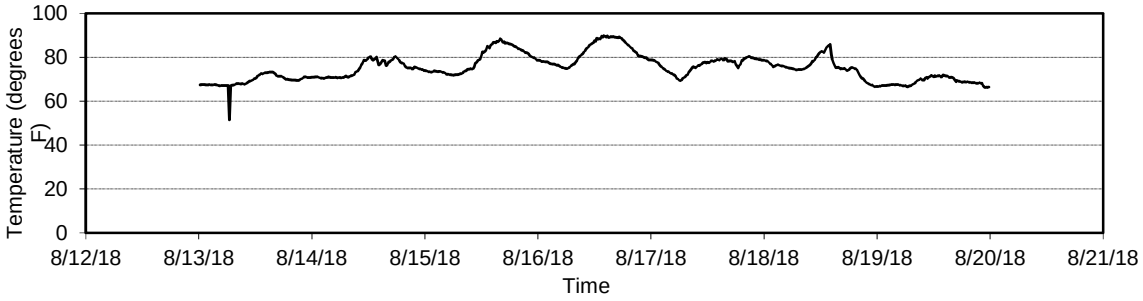


Figure 3. Temperature for the period 8/13/2018 through 8/19/2018

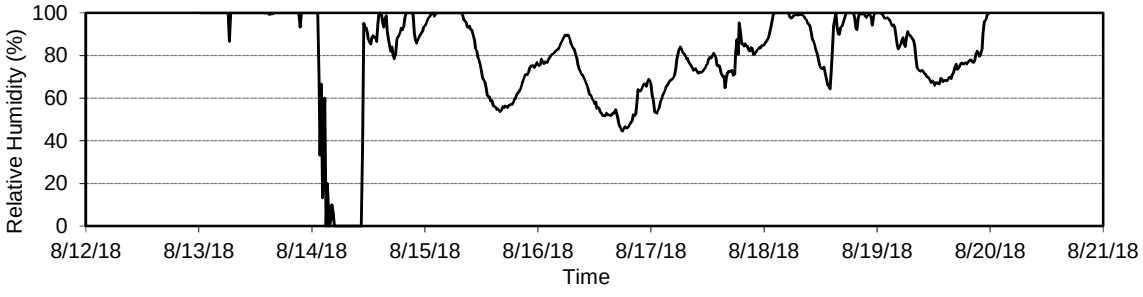


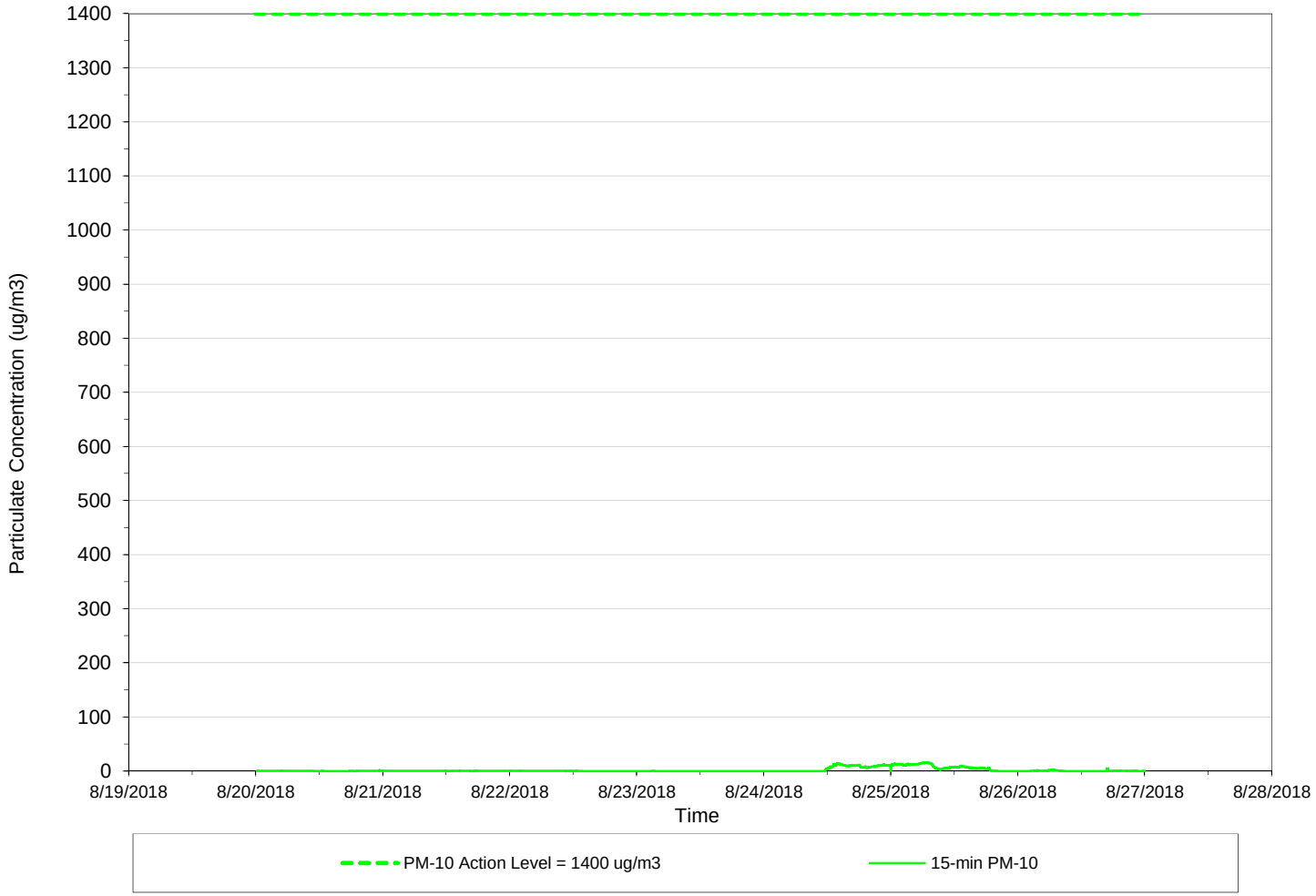
Figure 4. Relative humidity for the period 8/13/2018 through 8/19/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Aug27,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg =	1.80

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
8/20/2018	2.07
8/21/2018	0.55
8/22/2018	0.59
8/23/2018	0.15
8/24/2018	14.70
8/25/2018	15.97
8/26/2018	4.80

Wind Summary Statistics	
CALM	13%
UW	51%
UW/CW	0%
CW	0%
CW/DW	0%
DW	24%
DW/CW	0%
CW/UW	12%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

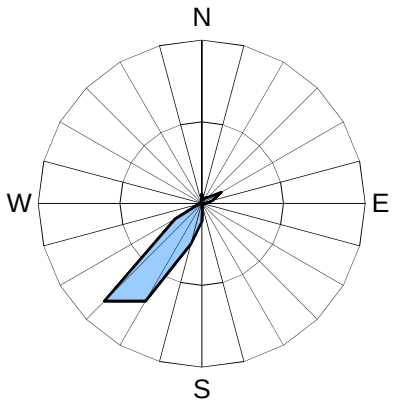


Figure 1. Wind rose for the period 8/20/2018 through 8/26/2018

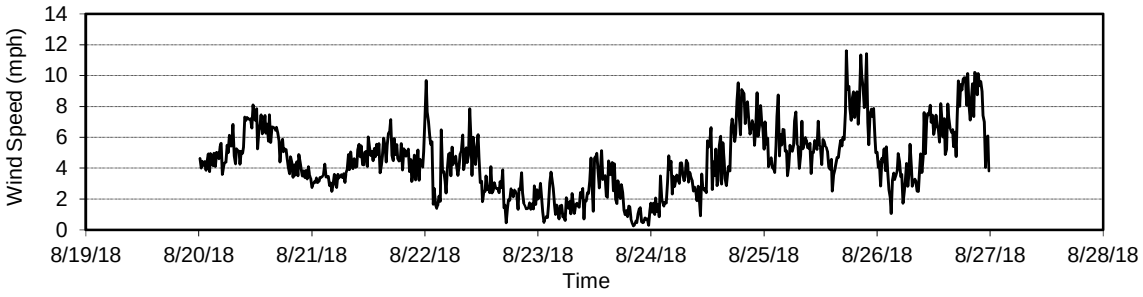


Figure 2. Wind speed for the period 8/20/2018 through 8/26/2018

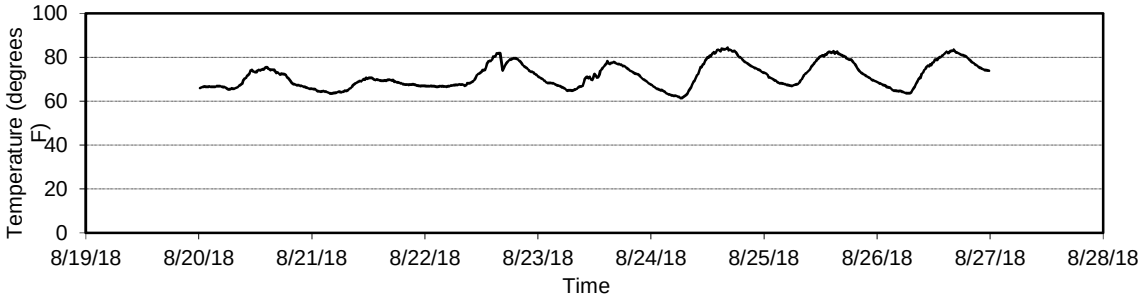


Figure 3. Temperature for the period 8/20/2018 through 8/26/2018

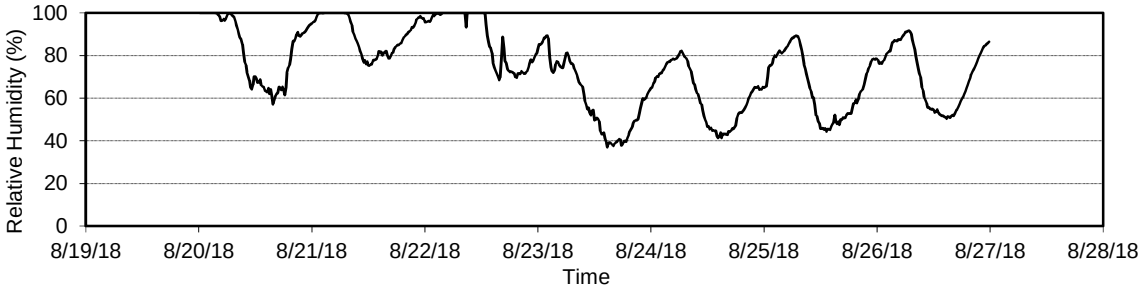


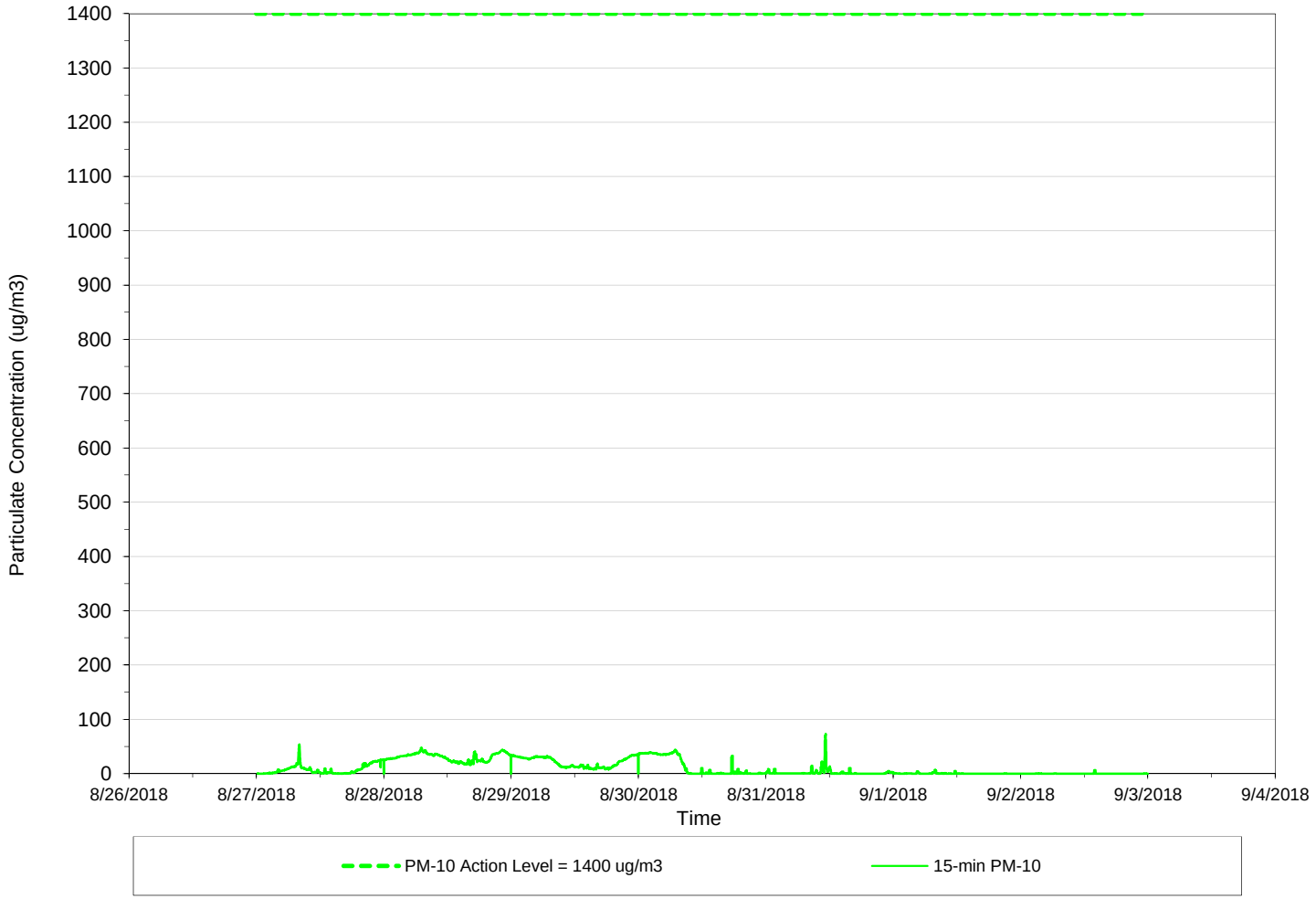
Figure 4. Relative humidity for the period 8/20/2018 through 8/26/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Sep03,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 10.84

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
8/27/2018	53.80
8/28/2018	47.53
8/29/2018	35.74
8/30/2018	43.72
8/31/2018	73.04
9/1/2018	7.02
9/2/2018	6.05

Wind Summary Statistics	
CALM	12%
UW	41%
UW/CW	0%
CW	0%
CW/DW	0%
DW	11%
DW/CW	0%
CW/UW	35%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

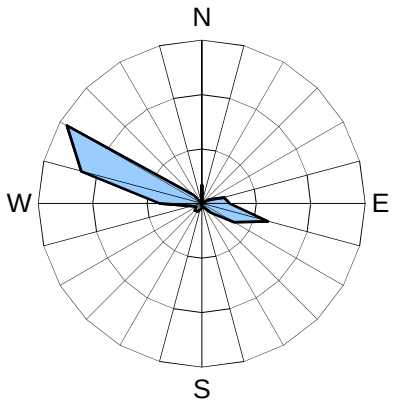

Figure 1. Wind rose for the period 8/27/2018 through 9/2/2018

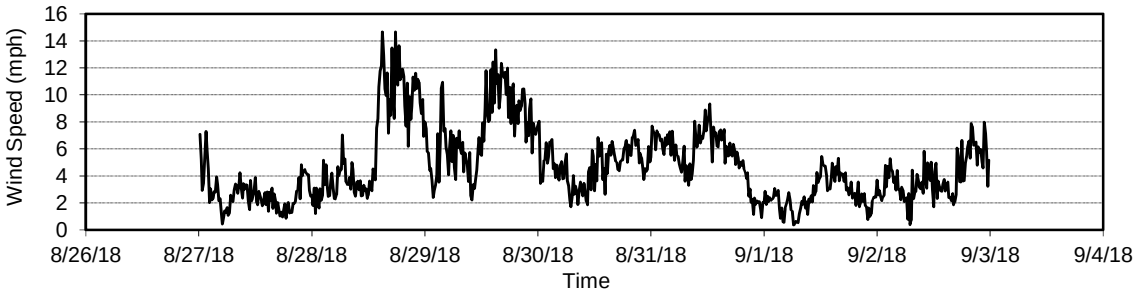

Figure 2. Wind speed for the period 8/27/2018 through 9/2/2018

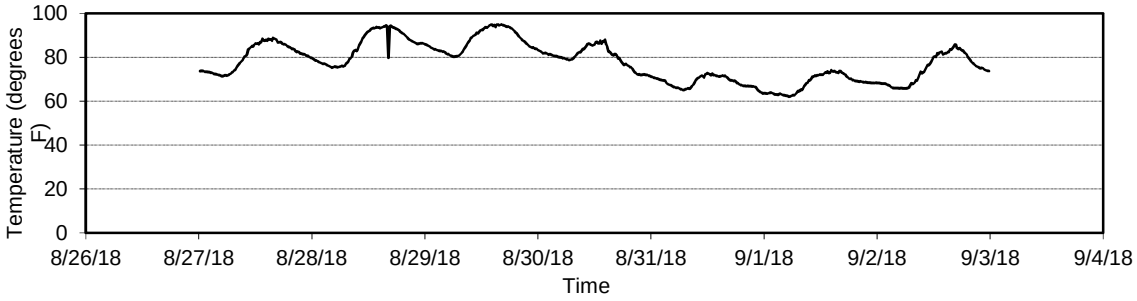

Figure 3. Temperature for the period 8/27/2018 through 9/2/2018

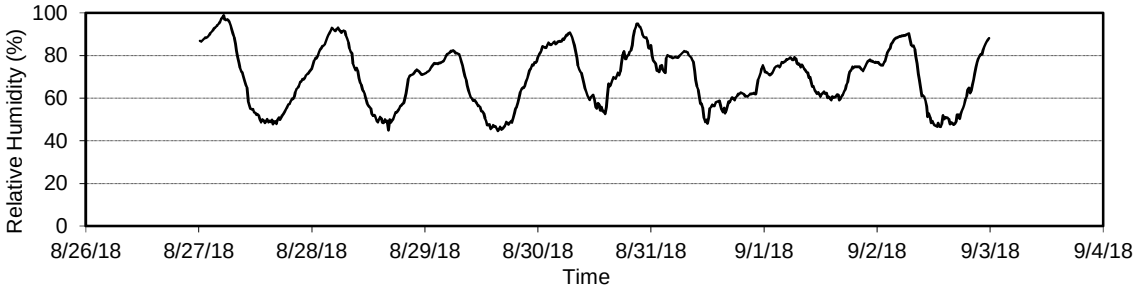

Figure 4. Relative humidity for the period 8/27/2018 through 9/2/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Sep10,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg =	0.63

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
9/3/2018	7.77
9/4/2018	17.99
9/5/2018	0.58
9/6/2018	0.10
9/7/2018	0.57
9/8/2018	0.61
9/9/2018	0.72

Wind Summary Statistics	
CALM	12%
UW	33%
UW/CW	0%
CW	0%
CW/DW	0%
DW	16%
DW/CW	0%
CW/UW	40%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

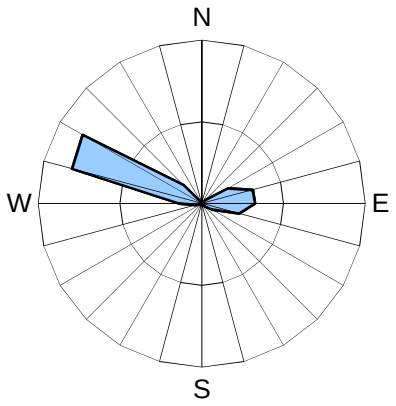

Figure 1. Wind rose for the period 9/3/2018 through 9/9/2018

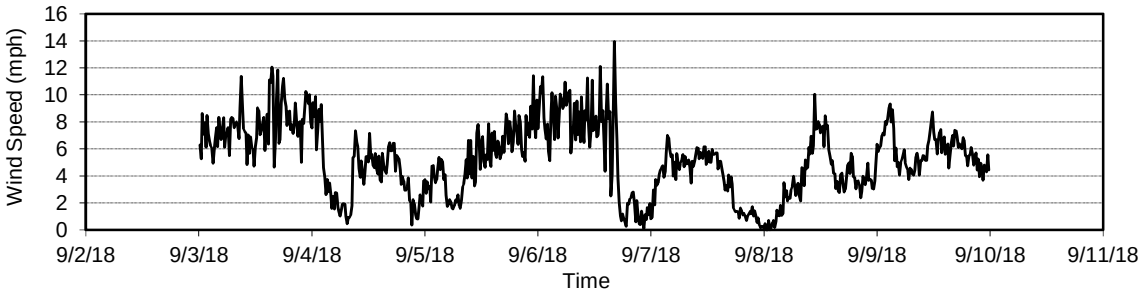

Figure 2. Wind speed for the period 9/3/2018 through 9/9/2018

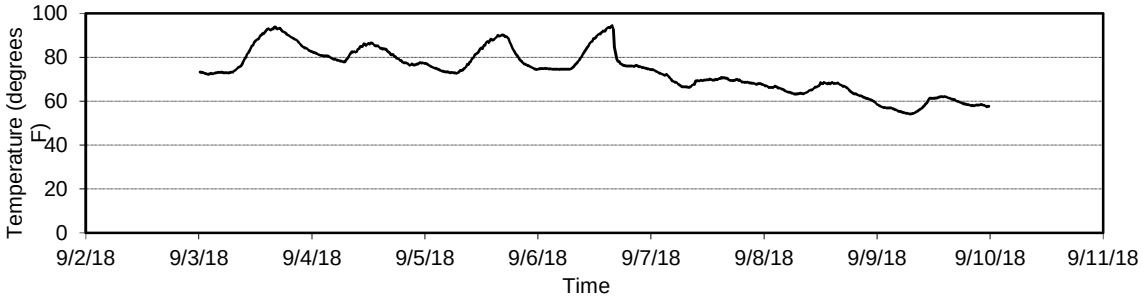

Figure 3. Temperature for the period 9/3/2018 through 9/9/2018

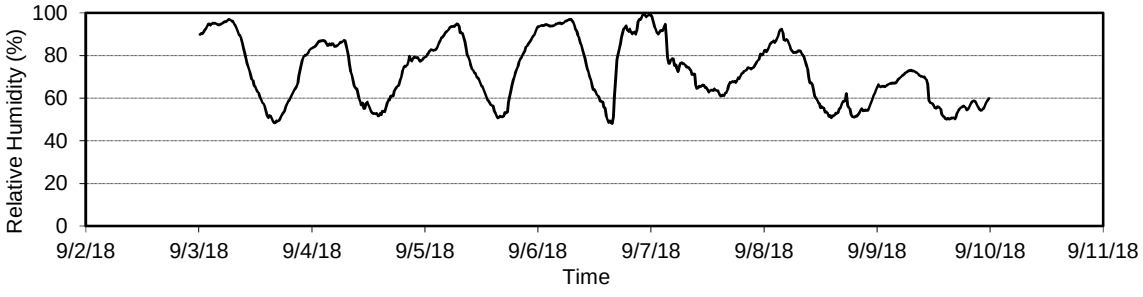

Figure 4. Relative humidity for the period 9/3/2018 through 9/9/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Sep17,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg = 12.57

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
9/10/2018	14.49
9/11/2018	0.61
9/12/2018	20.47
9/13/2018	20.59
9/14/2018	48.47
9/15/2018	91.32
9/16/2018	51.21

Wind Summary Statistics	
CALM	18%
UW	46%
UW/CW	0%
CW	0%
CW/DW	0%
DW	9%
DW/CW	0%
CW/UW	26%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

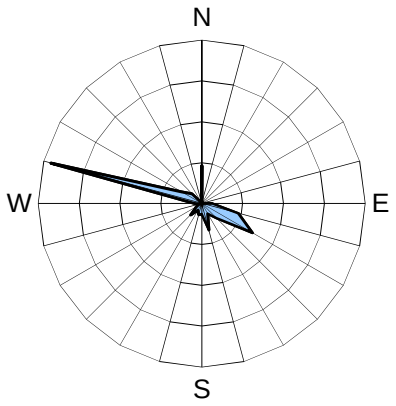

Figure 1. Wind rose for the period 9/10/2018 through 9/16/2018

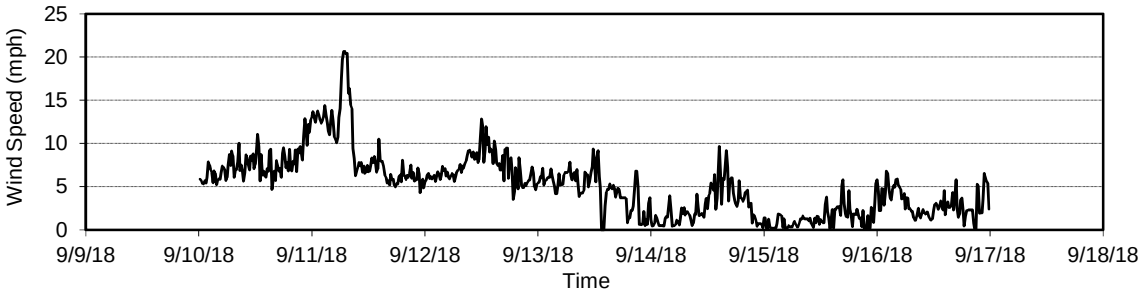

Figure 2. Wind speed for the period 9/10/2018 through 9/16/2018

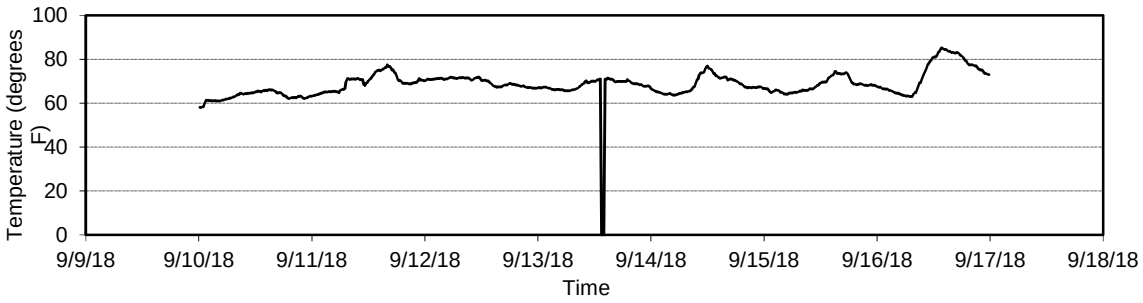

Figure 3. Temperature for the period 9/10/2018 through 9/16/2018

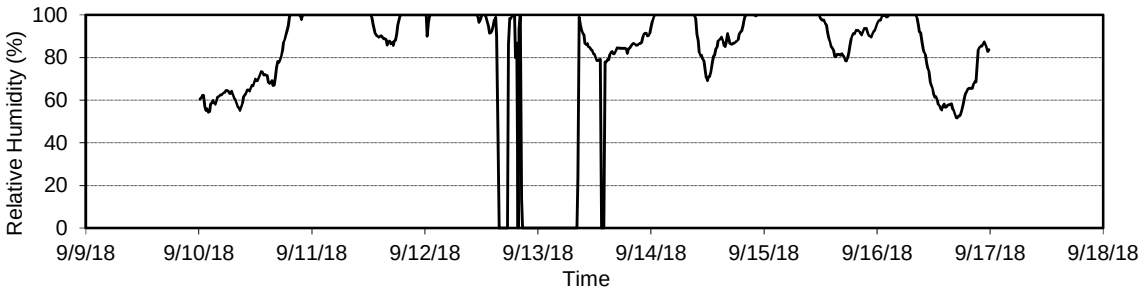

Figure 4. Relative humidity for the period 9/10/2018 through 9/16/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Sep24,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg =	3.78

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
9/17/2018	46.29
9/18/2018	33.08
9/19/2018	18.74
9/20/2018	54.07
9/21/2018	0.00
9/22/2018	11.84
9/23/2018	19.96

Wind Summary Statistics	
CALM	11%
UW	34%
UW/CW	0%
CW	0%
CW/DW	0%
DW	4%
DW/CW	0%
CW/UW	51%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

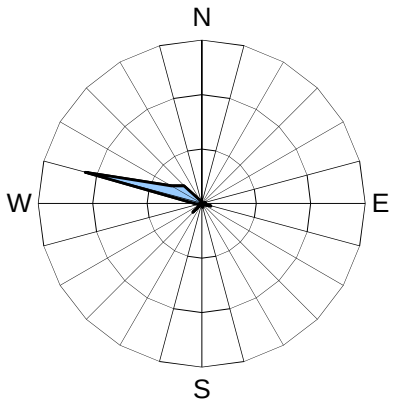


Figure 1. Wind rose for the period 9/17/2018 through 9/23/2018

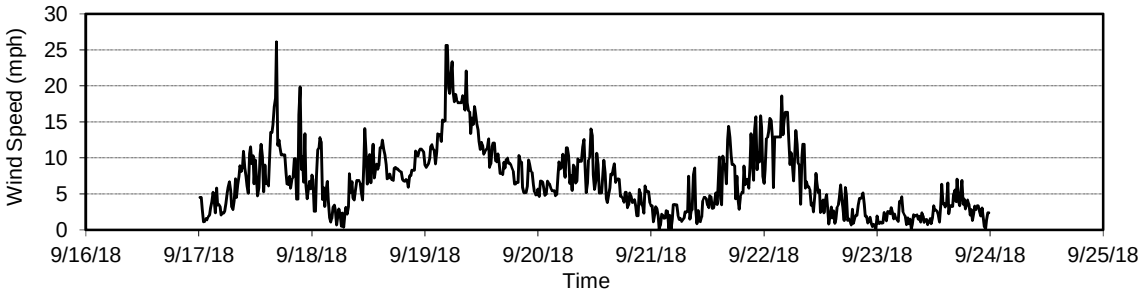


Figure 2. Wind speed for the period 9/17/2018 through 9/23/2018

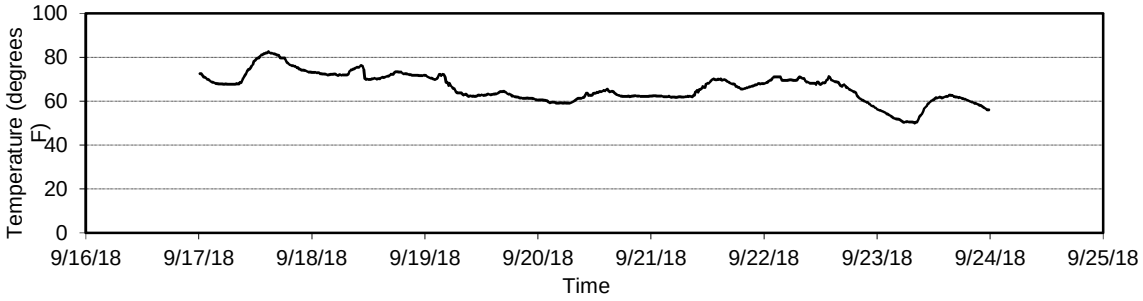


Figure 3. Temperature for the period 9/17/2018 through 9/23/2018

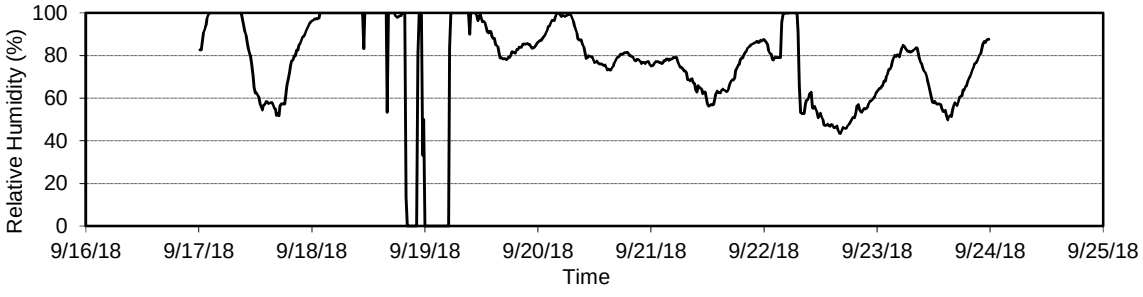


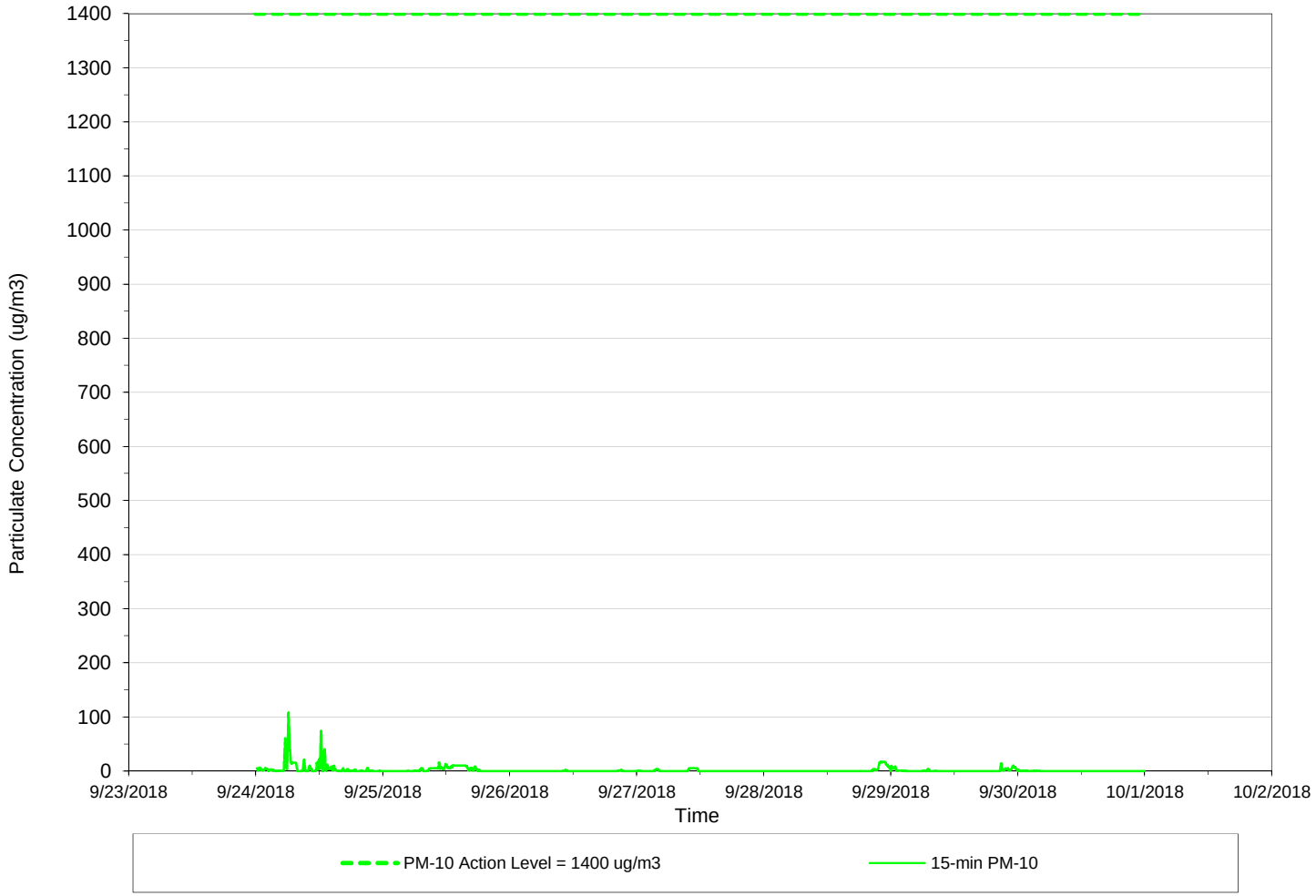
Figure 4. Relative humidity for the period 9/17/2018 through 9/23/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Oct01,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.94

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
9/24/2018	108.79
9/25/2018	16.14
9/26/2018	1.75
9/27/2018	4.94
9/28/2018	16.85
9/29/2018	14.80
9/30/2018	1.90

Wind Summary Statistics	
CALM	2%
UW	35%
UW/CW	0%
CW	0%
CW/DW	0%
DW	32%
DW/CW	0%
CW/UW	31%
TOTAL	100%

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Figures 1-4
Meteorological Data
Wynn Casino Site
Everett, Massachusetts

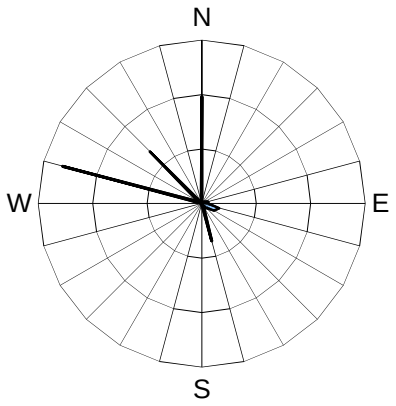

Figure 1. Wind rose for the period 9/24/2018 through 9/30/2018

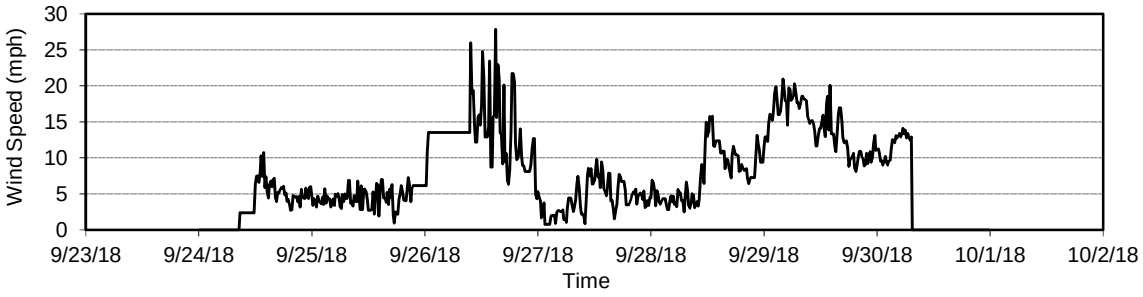

Figure 2. Wind speed for the period 9/24/2018 through 9/30/2018

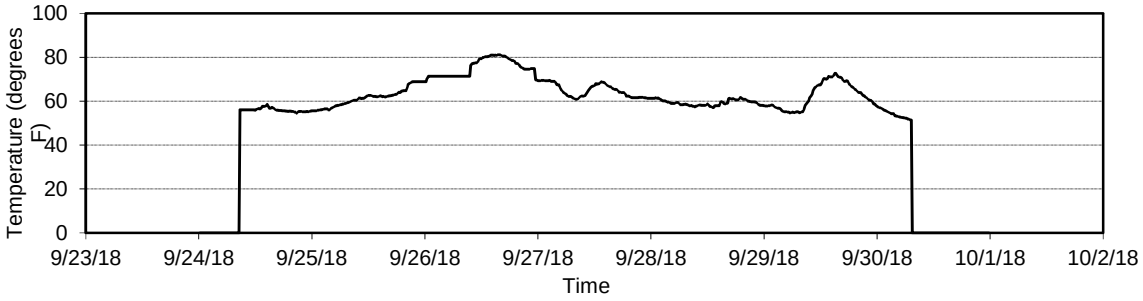

Figure 3. Temperature for the period 9/24/2018 through 9/30/2018

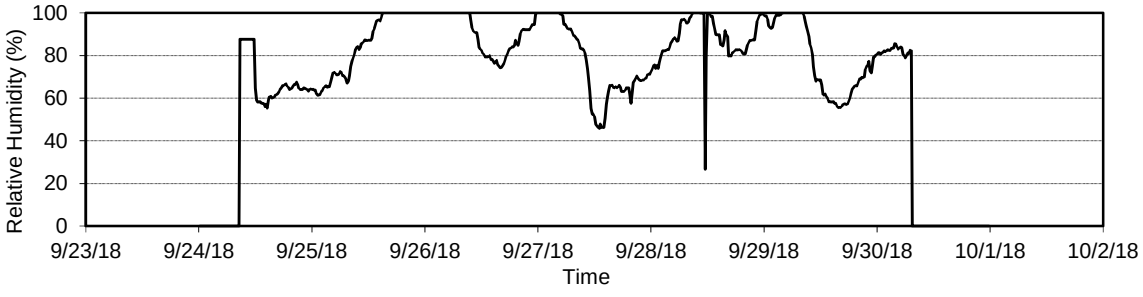

Figure 4. Relative humidity for the period 9/24/2018 through 9/30/2018

Note: Data are 15-minute averages collected at the Wynn Everett Site.

Oct08,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations

Weekly
Data Summary Statistics

PM-10 Avg = 7.35

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
10/1/2018	40.22
10/2/2018	91.83
10/3/2018	53.15
10/4/2018	23.02
10/5/2018	8.67
10/6/2018	0.42
10/7/2018	0.76

Wind Summary Statistics	
CALM	10%
UW	53%
UW/CW	0%
CW	0%
CW/DW	0%
DW	25%
DW/CW	0%
CW/UW	12%
TOTAL	100%

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PERIMETER AIR MONITORING SYSTEMS
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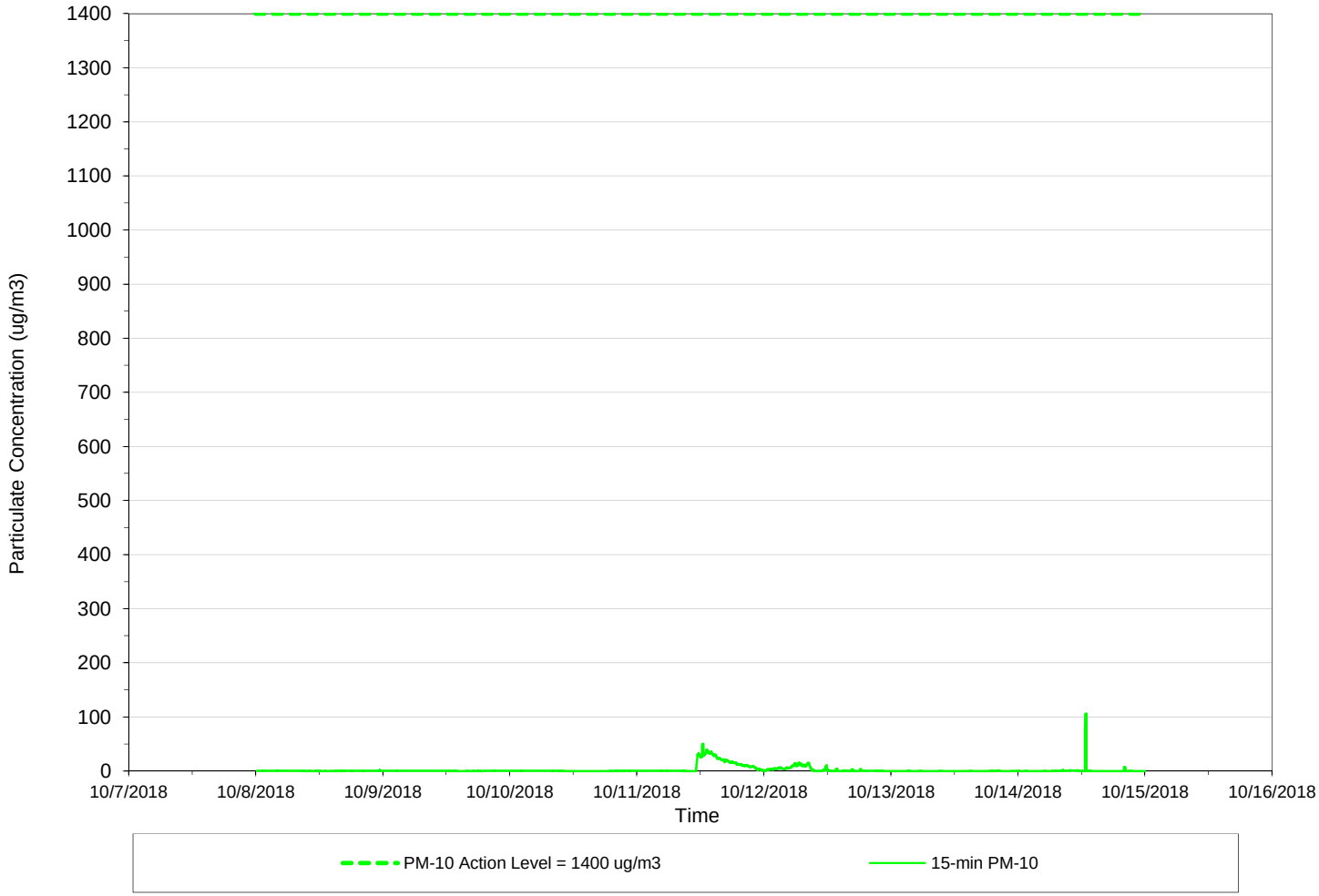
Oct15,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 2.13

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
10/8/2018	2.45
10/9/2018	0.57
10/10/2018	0.59
10/11/2018	50.15
10/12/2018	15.57
10/13/2018	1.00
10/14/2018	105.78

Wind Summary Statistics	
CALM	0%
UW	100%
UW/CW	0%
CW	0%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	0%
TOTAL	100%

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AIRLOGICS, LLC
PERIMETER AIR MONITORING SYSTEMS
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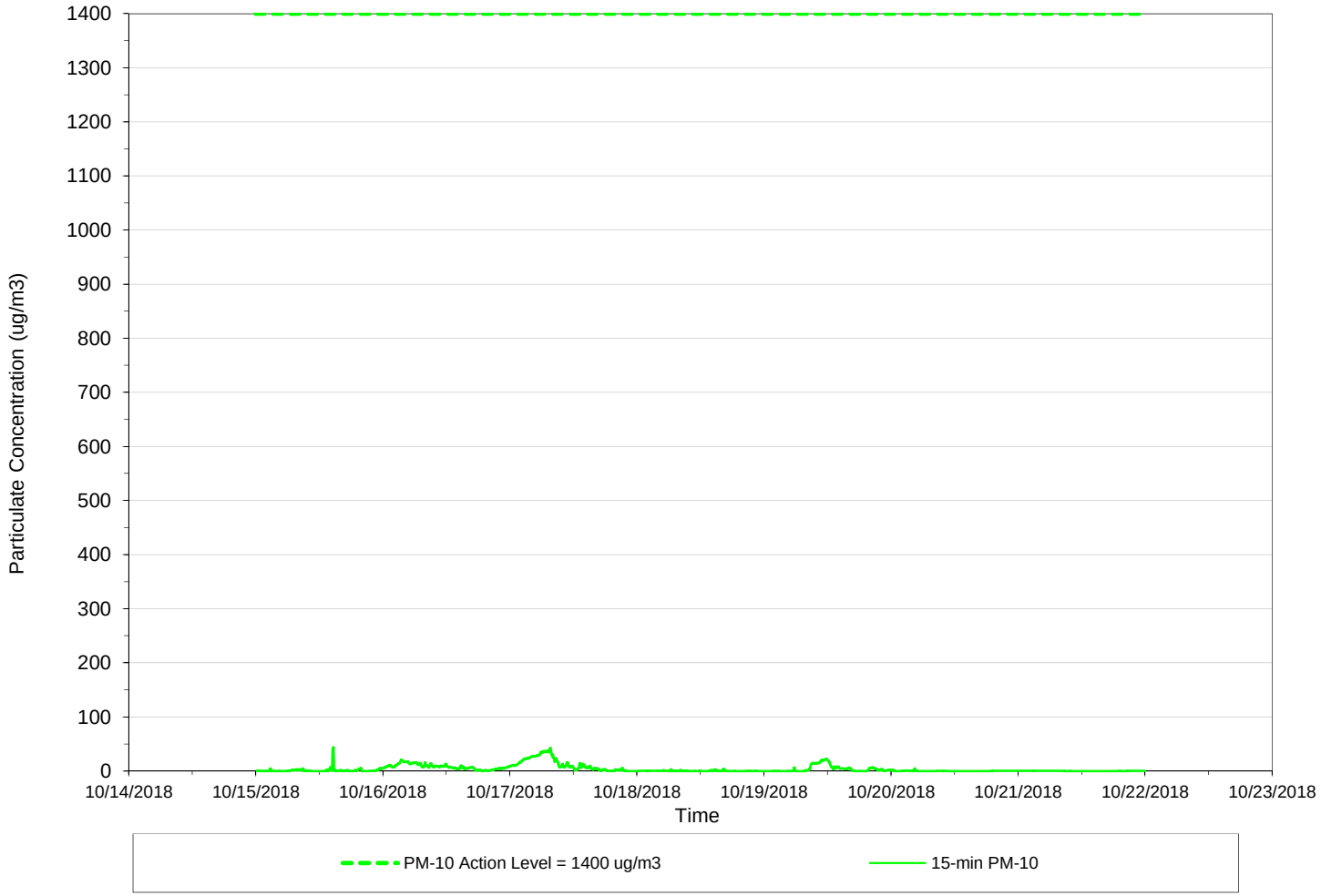
Oct22,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 3.73

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
10/15/2018	43.80
10/16/2018	20.87
10/17/2018	42.94
10/18/2018	4.28
10/19/2018	22.67
10/20/2018	4.58
10/21/2018	0.52

Wind Summary Statistics	
CALM	0%
UW	100%
UW/CW	0%
CW	0%
CW/DW	0%
DW	0%
DW/CW	0%
CW/UW	0%
TOTAL	100%

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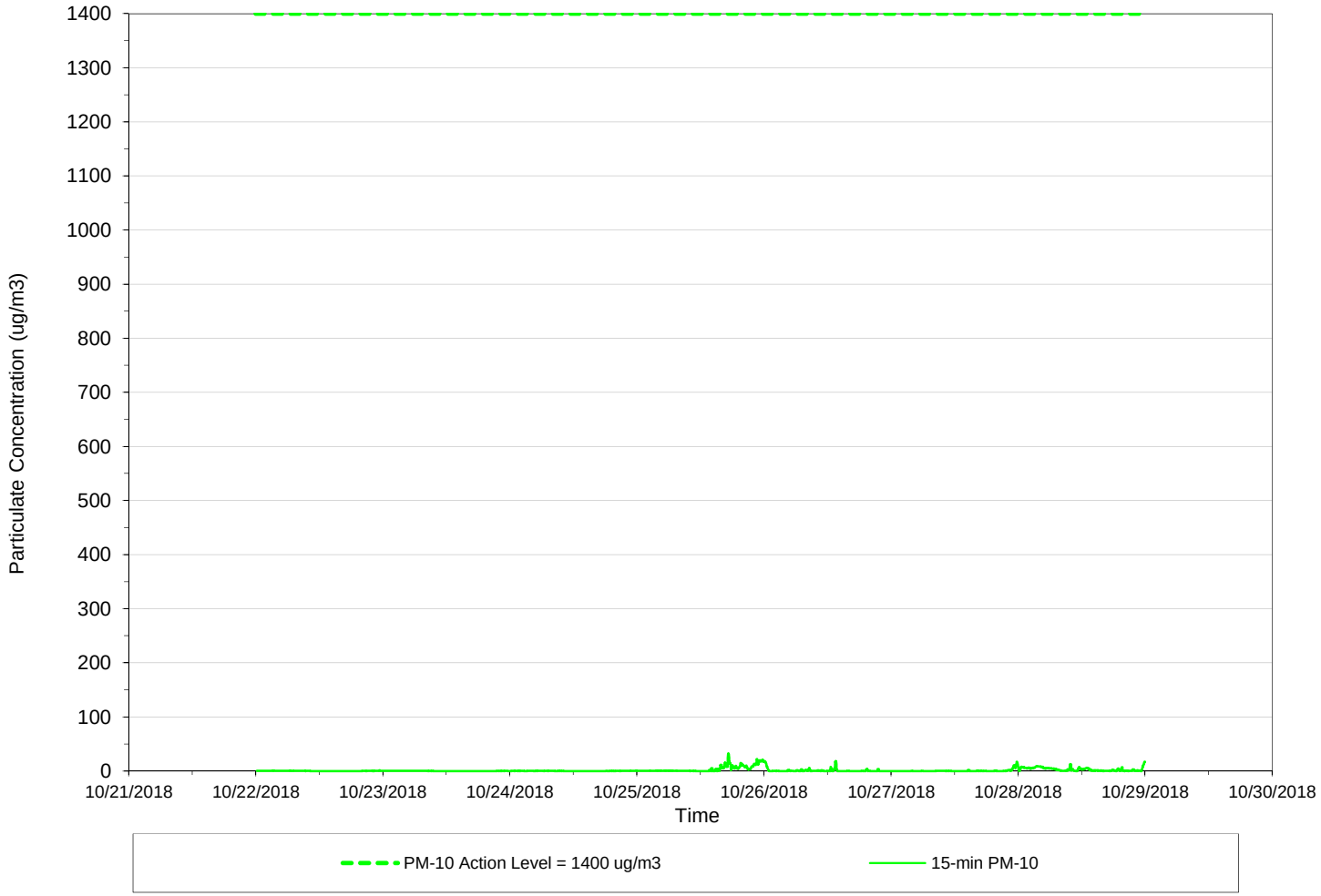
PERIMETER AIR MONITORING SYSTEMS
PROACTIVE BY DESIGN

Oct29,2018

AirLogics Perimeter Air Monitoring System - Weekly Results
Wynn Casino and Resort Site
Everett, Massachusetts

Perimeter Air Monitoring Station - STA 3
15-minute average concentrations



Weekly
Data Summary Statistics

PM-10 Avg = 1.34

Daily
Data Summary Statistics

PM10 max=	(15Min Avg)
10/22/2018	1.47
10/23/2018	0.53
10/24/2018	0.61
10/25/2018	32.41
10/26/2018	18.75
10/27/2018	17.12
10/28/2018	17.00

Wind Summary Statistics	
CALM	40%
UW	51%
UW/CW	0%
CW	0%
CW/DW	0%
DW	7%
DW/CW	0%
CW/UW	2%
TOTAL	100%

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